# **SERVICE MANUAL**

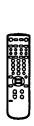
# RA-1 CHASSIS

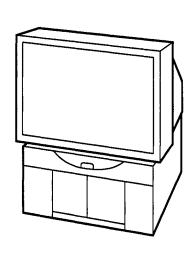
<u>MODEL</u>	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KP-46V35	RM-Y137 U	JS	SCC-H53M-A				
KP-53V35	RM-Y137 U	IS	SCC-H53N-A				
KP-53V35	RM-Y137 C	Canadian	SCC-H58L-A				
KP-61V35	RM-Y137 U	IS	SCC-H53P-A				

# Note:

1. Adjustment Manual for this model is separately published.

	Adjustment Manual
Part No.	9-965-106-01







**COLOR REAR VIDEO PROJECTOR** SONY

# **Specifications**

Projection system 3 picture tubes, 3 lenses, horizontal in-line system

Picture tube

7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquidcooling system

**Projection lenses** 

High performance, largediameter hybrid lens F1.0

Screen size (measured diagonally)

KP-46V35	46 inches	
KP-53V35	53 inches	
KP-61V35	61 inches	

# Screen brightness

KP-46V35	1500 cd/m²
KP-53V35	1200 cd/m <sup>2</sup>
KP-61V35	1000 cd/m <sup>2</sup>

# Television system Channel coverage

American TV standards VHF: 2-13/UHF: 14-69/

# **Antenna**

CATV: 1 - 125 75 ohm external antenna terminal for VHF/UHF

Inputs/output

VIDEO IN 1

S VIDEO IN (4-pin mini

DIN):

Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal),

75 ohms

VIDEO (phono jack):

1 Vp-p, 75-ohms

unbalanced, sync negative

AUDIO (phono jacks): 500 mVrms (100%

modulation) Impedance: 47 kilohms

VIDEO INPUT 2 and VIDEO

IN 3

VIDEO (phono jacks):

1 Vp-p, 75-ohms

unbalanced, sync negative

AUDIO (phono jacks): 500 mVrms (100%

modulation)

Impedance: 47 kilohms

VIDEO OUT 3

VIDEO (phono jack): 1 Vp-p, 75 ohms unbalanced, sync

negative

AUDIO (phono jack):

500 mVrms

(100% modulation),

Impedance: 10 kilohms

MONITOR OUT

VIDEO (phono jack): 1 Vp-p,

75 ohms unbalanced, sync

negative

AUDIO (phono jacks):

500 mVrms

(100% modulation),

Impedance: 10 kilohms

AUDIO (VAR/FIX) OUT (phono jacks): 900 mVrms (100%

modulation)

Impedance: 5 kilohms

Full range speaker:

100 mm (3.9 inches) Subwoofer speaker:

130 mm (5.1 inches)

Front: 15 W × 2

Subwoofer: 40 W × 1

**Power requirement** 

Speaker output

Speaker

120 V, 60 Hz

**Power consumption** 

Max. 330 W

# Standby mode: 4 W

	Dimensions (W/H/D)	Mass
KP-46V35	1,066 × 1,336 × 698 mm (42 × 52 <sup>5</sup> /s × 27 <sup>1</sup> /2 inches)	88 kg (193 lbs 10 oz)
KP-53V35	1,218 × 1,442 × 698 mm (48 × 56 <sup>3</sup> / <sub>4</sub> × 27 <sup>1</sup> / <sub>2</sub> inches)	94 kg (207 lbs 1 oz)
KP-61V35	1,338 × 1,619 × 774 mm (52 <sup>3</sup> / <sub>4</sub> × 63 <sup>3</sup> / <sub>4</sub> × 30 <sup>1</sup> / <sub>2</sub> inches)	146 kg (321 lbs 7 oz)

# Supplied accessories

Remote commander RM-Y137 (1) Size AA (R6) battery (2)

# **Optional accessories**

U/V mixer EAC-66 Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V, VMC-720M

High-contrast protective screen SCN-46X1 (For KP-46V35) SCN-53X1 (For KP-53V35)

Design and specifications are subject to change without notice.

# **SAFETY CHECK-OUT**

# (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement
- Check the line cords for cracks and abrasion.
   Recommend the replacement of any such line cord to the customer.
- Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.

Check leakage as described below.

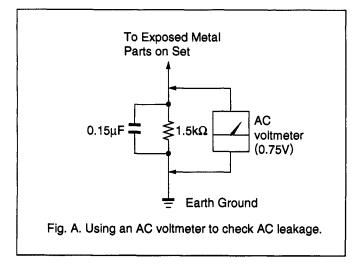
# **LEAKAGE TEST**

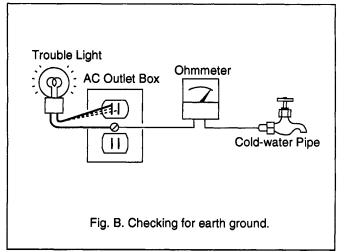
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

# HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





# **TABLE OF CONTENTS**

Sec	ction	<u>Title</u>	<u>Page</u>	Sec	tion	<u>Title</u>	<u>Page</u>
1.	GENE	ERAL		4.	DIA	GRAMS	
	Step 1	: Installing the projection TV	5		4-1.	Block Diagrams (1)	26
	Step 2	: Connections	5			Block Diagrams (2)	29
		: Setting up the projection TV automatically				Block Diagrams (3)	
		(AUTO SET UP)	9			Block Diagrams (4)	35
	Setting	the clock (CURRENT TIME SET)	12		4-2.	Circuit Boards Location	
	Setting	the timer to turn the projection			4-3.	Printed Wiring Boards and Schematic Diagram	ıs 38
	TV on	and off (ON/OFF TIMER)	12			• A Board	
	Blocki	ng out a channel (CHANNEL BLOCK)	13			• D Board	45
	Custor	nizing the channel names (CH CAPTION)	13			• U Board	51
	Setting	g video labels (VIDEO LABEL)	14			• M Board	57
	Displa	ying Caption Vision (CAPTION VISION)	14			• P Board	63
	Operat	ting a cable box or DBS receiver	15			HA Board	70
2	DICA	SSEMBLY				• E Board	71
۷.						• G Board	77
		Rear Plate Removal (KP-46V35/53V35)				• ZB Board	82
		Rear Plate Removal (KP-61V35)				HB Board	82
	2-2.	Chassis Assy Removal				• ZG Board	83
	2-3.	Service Position				• ZR Board	84
	2-4.	G Board Removal				• K Board	87
	2-5.	D Board Removal				MB Board	87
	2-6. 2-7.	U Board Removal				• CR Board	93
	2-7. 2-8.	M Board Removal				• CG Board	94
		HA Board Removal				CB Board	
		Beznet Removal (KP-46V35/53V35)			4-4.	Semiconductors	99
		Screen Frame Removal (KP-61V35)		5	EYE	PLODED VIEWS	
		Mirror Cover Removal (KP-40 V 33/35 V 33)		<b>J</b> .	5-1.		101
	2-10-2 2-11.	· · · · · · · · · · · · · · · · · · ·			5-1. 5-2.	Cover (KP-46V35/53V35) Cover (KP-61V35)	
		Picture Tube Removal				•	
		K Board Removal			5-3. 5-4.	Chassis	
	<b>2-13.</b>	K Doard Kelloval	19		J-4.	ricture 1 abe	104
3.	SAFE	ETY RELATED ADJUSTMENTS	20	6.	ELE	ECTRICAL PARTS LIST	105

# (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

# WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

# **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

# (ATTENTION)

APRES AVOIR DECONNÈCTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

# ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

# ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE À SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

# **SECTION 1 GENERAL**

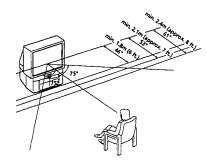
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

# **Step 1: Installing** the projection TV

For the best picture quality, install the projection TV within the areas shown below.

## Optimum viewing area (Horizontal)

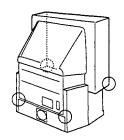


Before you use your projection TV, adjust convergence.

Be sure to grasp the portions indicated when carrying the projection TV, and to use more than two people.

Carrying your projection TV

#### (Rear of projection TV)



# Preparing for your projection TV

For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 15.

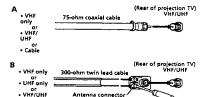
# **Step 2: Connections**

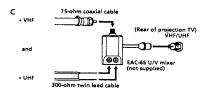


Although you can use either an indoor antenna or outdoor antenna with your projection TV, we recommend connecting to an outdoor antenna or a cable TV system for improved picture quality.

## To an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.





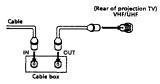
- · Most VHF/UHF combination antennas have a signal splitter.
- Remove the splitter before attaching the appropriate connector. . If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

# Connecting an antenna/cable TV system without a VCR

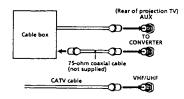
To cable or antenna (Rear of projection TV)
VHF/UHF

### To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



## To cable box and cable

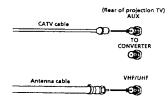


Pay cable TV systems use scrambled or encoded signals requiring the cable box\* in addition to the normal cable connection.

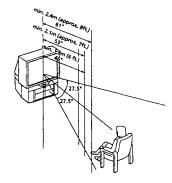
' The cable box will be supplied by the cable company.

 You cannot watch the signal through AUX connector as a window picture.

## To cable and antenna



Do not connect anything to the TO CONVERTER connector in



Optimum viewing area (Vertical)

5-EN

# Connecting an antenna/cable TV system with a VCR

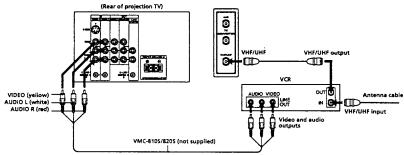
For details on connection, see the instruction manual of your VCR. Before connecting, disconnect the AC power cords of the equipment to be connected.

After making these connections, you will be able to do the following:

- · View the playback of video tapes
- Record one TV program while viewing another program

# To a conventional VCR

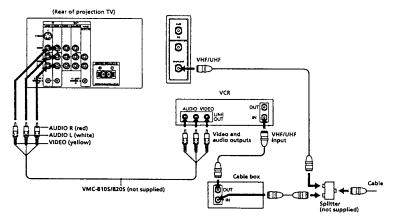
### Without a cable box



## Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO L (MONO) of VIDEO 1/3 IN on the projection TV
- Do not connect the cable to the S VIDEO connector on the projection TV.

## With a cable box



Getting Started

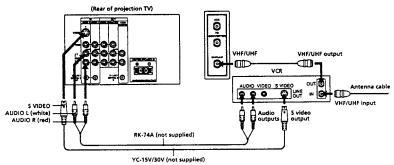
# 7-EN

# To an S video equipped VCR

If your VCR has an S video output jack, make the connection as follows.

Whenever you connect the cable to the S VIDEO connector, the projection TV automatically receives S video signals.

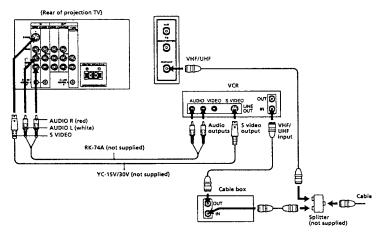
# Without a cable box



## Note

 Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connection.

## With a cable box

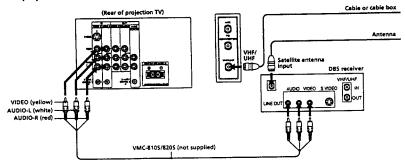


EN | Getting Started

# Connecting a DBS receiver

For connection details, see the instruction manual of the DBS (Digital Broadcasting Satellites) receiver.

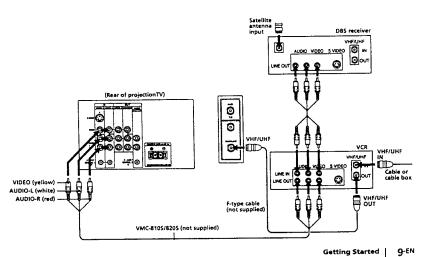
## To a projection TV



#### Note

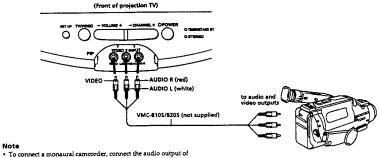
. You can use the S VIDEO jack or the composite video jack for the video connection.

# To a projection TV and VCR



# Connecting a camcorder

This connection is convenient for watching the picture from a camcorder.



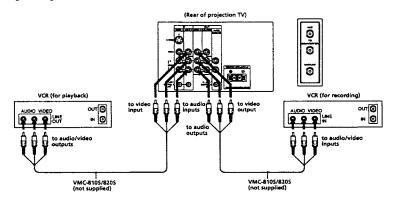
# Note

the camcorder to AUDIO L (MONO) of VIDEO 2 INPUT on the projection TV.

# Connecting two VCRs for tape editing using VIDEO 3 IN and OUT

You can watch input images different from the image being recorded.

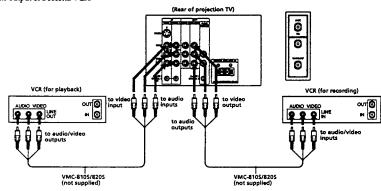
The VIDEO 3 OUT jacks output only the signal from the VIDEO 3 IN jacks. If you make the connection as shown below, you can watch images from either antenna, cable, VIDEO 1 IN or VIDEO 2 INPUT jacks during recording.



10-EN | Getting Started

# Connecting two VCRs for tape editing using MONITOR OUT

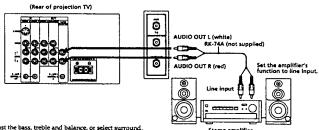
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



- · Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- When connecting a single VCR to the projection TV, do not connect MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN jacks to the VCR's line output.
- You can use the S VIDEO connector to connect a VCR for playback and either S VIDEO connector or composite video jack to connect a VCR for recording.

## Connecting an audio system

When connecting audio equipment, see page 29 for more information.



#### Note . You can adjust the bass, treble and balance, or select surround, an MTS (Multichannel TV Sound) or OSE (Orchestra Seat Effect) mode with the supplied remote commander.

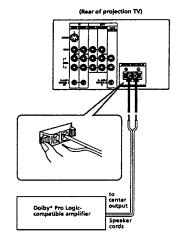
# Using the projection TV speakers as center speakers

This feature allows you to enjoy the benefits of Dolby Pro Logic by using the speakers of the projection TV as the center speaker. To utilize this system, you must connect an amplifier that is Dolby Pro Logic compatible. Connect the speaker wires from the amplifier's center channel output terminals to the projection TV's CENTER SPEAKER IN. Both right and left terminals must be connected to receive an audio signal. After making the right connections, select "SPEAKER: CENTER" in the AUDIO menu (page 29). The left and right audio channels can be heard through your audio system speakers.

In this connection, adjust the volume with your amplifier.

#### Notes

- Always match the speaker cord and terminal colors when making the connections.
- · Unplug the projection TV when making the connections. If the exposed speaker cord wires touch while the projection TV is plugged in, the projection TV may short-circuit and be damaged.
- Do not pull on the speaker cords.
- Always turn off the amplifier power before connecting to the CENTER SPEAKER IN terminals.
- When using the projection TV speakers as center speakers, the subwoofer is disabled.



Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,959,590. Canadian numbers 1,004,603 and 1,037,877. "Dolby", "Pro Logic", and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

# Using the S-Link function with S-Link capable Sony VCRs

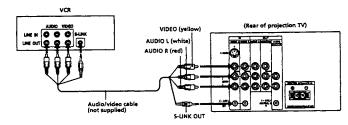
The S-Link feature allows you to operate the projection TV and VCR with the S-Link function in the following

 When you press the VCR's play button, the projection TV's input mode is automatically changed to video input which is connected, and the VCR starts playing a tape.

· You can turn off the projection TV and VCR together using the SYSTEM OFF button (see page 38 for details).

#### Notes

- The projection TV may malfunction if you connect the S-Link cable to the projection TV without connecting the other end of the cable to the VCR.
- When making the S-Link connection, be sure to insert all the
- The same terminals are used for both S-Link and CONTROL S.

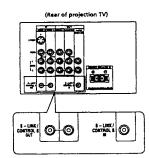


# Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote commander.

- To control other Sony equipment with the projection TV's remote commander, connect the input of the equipment to CONTROL SOUT jack on the projection TV.
- · To control the projection TV with the remote commander of other Sony equipment, connect the output of the equipment to CONTROLS IN jack on the projection TV.

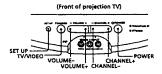
The same terminals are used for both S-Link and CONTROL S.



# Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the onscreen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 17), "Setting cable TV on or off" (page 18), "Presetting channels" (page 19) and "Changing the menu language" (page 19).

If the TV is set to a video input, you cannot execute AUTO SET UP. Press TV/VIDEO so that a channel number appears.



1 Press POWER to turn the projection TV on.



2 Press SET UP on the front of the projection

The AUTO SET UP screen appears.



AUTO SET UP : (CH+) AUTO AJUSTES : ICH-I REGLAGE AUTO: IVOL +1 DEMO: Press baturi to Exit

## 3 Press CHANNEL+ to start AUTO SET UP.

If you prefer Spanish or French to English, you can change the on-screen menu language. Press CHANNEL - for Spanish or VOLUME+ for French.





All of the menus will be set to the factory preset condition in the selected language.

## 4 Press CHANNEL+ to preset channels.





"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CATV is set to ON automatically.



# 5 Adjust convergence.

(1) Press CHANNEL+.

The CONVERGENCE adjustment screen appears.





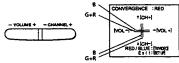
(continued)

(2) Press TV/VIDEO to select RED or BLUE.





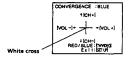
(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green



To move horizontal line up/down, press CHANNEL+/-.

To move vertical line right/left, press VOLUME+/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



#### Notes

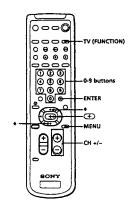
- . If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . In case of using the AUX connector, press TV (black button) on the remote commander first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow steps 2 to 5 above to perform AUTO SET UP.

## To preview the main functions (DEMO)

Press VOLUME- in step 3. The functions and menus are displayed one by one. To exit DEMO, press any button.

# Erasing or adding channels

After AUTO SET UP you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



## 1 Press TV (FUNCTION).



2 Press MENU.

The main menu appears.





3 Press + or + to move the cursor (►) to SET UP and press .

The SET UP menu appears.





4 Make sure the cursor (▶) is beside CHANNEL ERASE/ADD and press .

If the cursor is not beside CHANNEL ERASE/ ADD, press ♦ or ♦ to move the cursor and press

The CHANNEL ERASE/ADD menu appears.





## 5 Erase and/or add the channel you want: To erase an unwanted channel

- (1) Make sure the cursor (▶) is beside ERASE.
- (2) Press CH + or to select the channel you want to erase.

Selected channel





(3) Press .

The "-" indication appears beside the channel number, showing that the channel is erased from the preset memory.



#### To add a channel that you want

- (1) Press + or + to select ADD.
- (2) Press 0 9 button to select the channel you want to add, and press ENTER. Selected channel

0 2 3  $\odot$   $\odot$ 



(3) Press (+).

The "+" indication appears beside the channel number, showing that the channel is added to the preset memory.



- 6 To erase and/or add other channels, repeat
- 7 When you finish, press MENU.



#### Notes

- . If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and
- . If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- Erasing and adding channels are also available for the AUX

## Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

You do not have to do this procedure if you execute AUTO SET UP (page 15). Do this procedure only when you want to adjust it manually.

- 1 Press MENU.
- 2 Press + or + to move the cursor (►) to SET UP and press .
- 3 Press + or + to move the cursor (►) to CONVERGENCE and press RETURN.

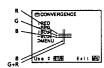
The CONVERGENCE adjustment screen appears.



4 Press + or + to move the cursor (▶) to the symbol showing the line you want to adjust, and press .



- RED: Red vertical line (left/right adjustment)
- RED: Red horizontal line (up/down adjustment)
- | BLUE: Blue vertical line (left/right adjustment) - BLUE: Blue horizontal line (up/down adjustment)
- 5 Press + or + to move the line until it converges with the center green line, and press 🕀 .



- To move up/right, press +. To move down/left, press ♦.
- 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.
- 7 Press MENU to return to the original screen.

# Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON, the factory setting. If not, set CABLE to OFF.

You do not have to do this procedure if you execute AUTO SET UP (page 15). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to move the cursor (>) to SET UP and press ⊕.
- 3 Press + or + to move the cursor (▶) to CABLE and press .



4 Press + or + to select ON or OFF and press



5 Press MENU to return to the original screen.

 1f CABLE appears in black, the projection TV is set to a video input and you cannot select CABLE. Press TV (black) so that a channel number appears.

# **Presetting channels**

You can preset TV channels easily by AUTO PROGRAM feature.

You do not have to do this procedure if you execute AUTO SET UP (page 15). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to move the cursor (▶) to SET UP and press .



3 Press + or + to move the cursor (▶) to AUTO PROGRAM and press .



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

4 Press MENU to return to the original screen.

- . If AUTO PROGRAM appears in black in the SET UP menu, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press TV (black) so that a channel number
- appears.

   If more than 90 seconds elapse after you press a button, the menu disappears automatically.

  Presetting channels is also available for the AUX input.

# Changing the menu language

If you prefer Spanish or French to English, you can change the menu language.

You do not have to do this procedure if you execute AUTO SET UP (page 15). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press + or + to move the cursor (▶) to SET UP and press 🕕 .
- 3 Press + or + to move the cursor (►) to LANGUAGE and press .



4 Press + or + to select the language and press (+).

The menu in selected language appears.



5 Press MENU to return to the original screen.

. Even when you select Spanish or French language, certain parts of the menus remain in English.

# **Setting the clock**

(CURRENT TIME SET)

Set the current time before using On/off Timer (page 32) and Channel Block features (page 33). For example, set the clock to 3:15 P.M., Monday.



- 1 Press MENU.
- 2 Press + or + to select TIMER/CH BLOCK and press (+).







If you need to set DAYLIGHT SAVING, follow the procedure on the previous page.

3 Make sure the cursor (►) is beside CURRENT TIME SET, and press (+).

If the cursor is not beside CURRENT TIME SET. press + or + to move the cursor and press .





4 Set the current time. (1) Press (1) to start setting the time.





(2) Press + or + to set the day and press ⊕.







(3) Using • or • and (1), set hour and minute in the same way as in step (2). When you press @ after setting the minute, the clock starts.







If you make a mistake while setting the time Press RESET while the CURRENT TIME SET menu is displayed, then repeat step 4.

To display the current time Press DISPLAY.

. If you unplug the projection TV or a power interruption occurs, the clock will be erased. Reset the current time.

# **Setting the timer to** turn the projection TV on and off

(ON/OFF TIMER)

You can set the projection TV to turn on and off at the time you specify. Make sure the clock is set correctly. If it is not, set the clock first (page 31).



- 1 Press MENU.
- 2 Press + or + to select TIMER/CH BLOCK and
- 3 Press + or + to select ON/OFF TIMER and press 🕕 .





- 4 Enter the ON/OFF TIMER setting.
  - (1) Press ♦ or ♦ to select program 1 or 2 and press
  - (2) Press ♦ or ♦ to set the days and press ⊕. Each time you press + or +, the days cycle as shown below.

EVERY SUN-SAT→EVERY MON-FRI--SUNDAY-MONDAY-...-SATURDAY-EVERY SUNDAY→EVERY MONDAY → ... - EVERY SATURDAY





(3) Press ♦ or ♦ to set the time (hour then minute) that you want to turn on the projection TV and press 🕀 .







(4) Press ♦ or ♦ to set the hour duration and press

You can set the hour duration by one hour up to a maximum of six hours.





The TIMER/STAND BY indicator on the projection

 ${f 5}$  To set the other program, press  ${f \oplus}$  and repeat step 4.

One minute before the projection TV switches to turn off, a message "TV will turn off," is displayed on the screen.

### To cancel the timer

Press RESET on the remote commander.

 If you unplug the projection TV or a power interruption occurs, ON/OFF TIMER settings will be erased. Reset the current time then set the timer

# **Blocking out a** channel (CHANNEL BLOCK)

This feature allows you to prevent children from watching unsuitable programs.

Make sure the clock is set correctly. If it is not, set the clock first (page 31).



- 1 Press MENU.
- 2 Press + or + to select TIMER/CH BLOCK and
- 3 Press + or + to select CHANNEL BLOCK and press 🕣





- 4 Enter a CHANNEL BLOCK setting.
  - (1) Press ♦ or ♦ to select program 1 or 2 and press
  - (2) Press ♦ or ♦ to set the days and press ⊕ . Each time you press + or +, the days cycle as shown

EVERY SUN-SAT-→EVERY MON-FRI-→ SUNDAY-MONDAY-...-SATURDAY-EVERY SUNDAY→EVERY MONDAY→ ... → EVERY SATURDAY







(3) Press + or + to set the time (hour then minute) that you want to start blocking the channel and press 🕀 .





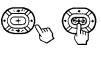
(4) Press ♦ or ♦ to select the hour duration you want to block and press 🕀 .

Each time you press ( ), the hour duration increases by one hour up to a maximum of 12





(5) Press ♦ or ♦ to select the channel and press ⊕.





If you select the blocked channel during the time you set, the message "BLOCKED" appears and the picture is blocked and the sound is muted.

To cancel a CHANNEL BLOCK setting Press RESET on the remote commander.

 If the CHANNEL BLOCK and ON/OFF TIMER settings are overlapped, the later time setting has priority over the other

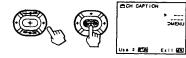
# **Customizing the** channel names

(CH CAPTION)

You can add a caption for up to 20 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



- 1 Press MENU.
- 2 Press + or + to select SET UP and press .
- 3 Press + or + to select CH CAPTION and press



4 Press 🕧 again.







5 Press + or + to select the channel that you want to caption and press (+).





- 6 Enter the letters (up to four) to caption the channel:
  - (1) Press ♦ or ♦ to select the first letter.

Each time you press + or +, the letter changes as



(2) Press .





(3) Repeat steps (1) and (2) to select the remaining letters and press .





7 Repeat steps 4 to 6 to caption other channels.

To erase a caption Press RESET after step 4.

- . If the CH CAPTION menu appears in black, the projection TV is set to a video input, and you cannot select CH CAPTION.
- Press TV (black button) so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- . The channel caption feature is not available for the AUX input.

# Setting video labels (VIDEO LABEL)

This feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 IN as VHS.



- 1 Press MENU.
- 2 Press + or + to select SET UP and press .
- 3 Press + or + to select VIDEO LABEL and press
  .







4 Press + or + to select the input mode you want to label and press .



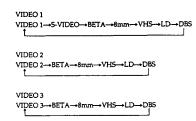




5 Press + or + to select the label and press



Each time you press♦ or ♥, the label changes as shown below.



6 Repeat steps 4 and 5 to label other input modes.

#### Note

 If more than 90 seconds elapse after you press a button, the menu disappears automatically.

# Displaying Caption Vision

(CAPTION VISION)

Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3 or TEXT4 from the menu. CC1, CC2, CC3 or CC4 shows you a caption, that is a printed version of the dialog or sound effects of a program. (The mode should be set to CC1 for most programs.)

TEXT1, TEXT2, TEXT3 or TEXT4 shows you text, that is information presented using either half or the whole screen. It is not usually related to the program.



- 1 Press MENU.
- 2 Press + or + to select CAPTION VISION and press ⊕.



3 Press + or + to select the caption type and press ⊕.

The selected caption type is colored green.





## To display Caption Vision

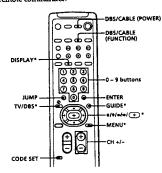
Press DISPLAY. (See page 21 for details.)

#### Note

- Poor reception of TV programs can cause errors in Caption Vision and XDS.
- Captions may appear with a white box or other errors instead of a certain word.
- XDS, Caption Vision, and the status display cannot be used at the same time.
- . For details on XDS, see page 21.

# Operating a cable box or DBS receiver

You can program the supplied remote commander to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote commander.



- The TV/DBS, GUIDE, DISPLAY, \*/\*/\*/ 
   and MENU buttons can be used only with a DBS receiver.
- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart), then press ENTER. For example, to program your remote commander to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.

3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.

4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0 - 9 and ENTER buttons.

. If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote commander will not operate.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or **DBS** receiver

Refer to the operating instructions that come with the equipment.

if the remote commander doesn't work

 First, try repeating the setup procedures using the other codes listed for your equipment.

# Manufacturer code numbers (cable box)

Manufacturer	Code number
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zeruth	212, 213

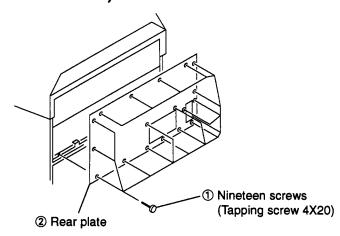
# Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote commander)
RCA	802

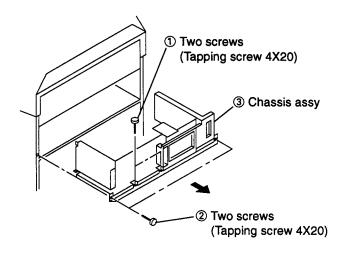
- . If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- . If you enter a new code number, the code number you previously entered at that setting is erased.
- . In some rare cases, your equipment may use a code that is not provided with this remote commander and you may not be able to operate your equipment with the supplied remote commander. In this case, use the equipment's own remote
- Whenever you remove the batteries to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

# SECTION 2 DISASSEMBLY

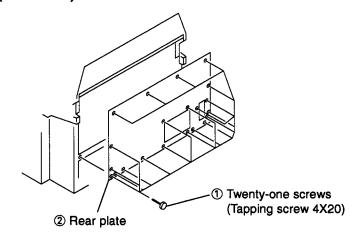
# 2-1-1. REAR PLATE REMOVAL (KP-46V35/53V35)



# 2-2. CHASSIS ASSY REMOVAL

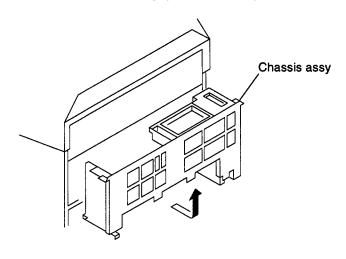


# 2-1-2. REAR PLATE REMOVAL (KP-61V35)

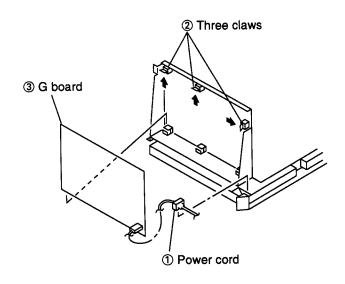


# 2-3. SERVICE POSITION

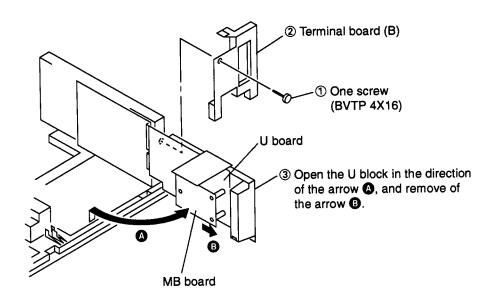
Remove the chassis assy (Refer to 2-2.)



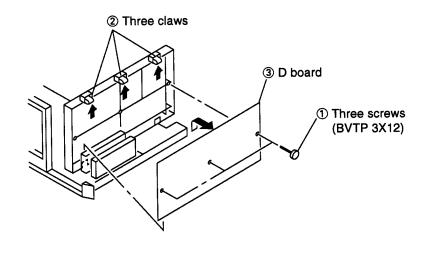
# 2-4. G BOARD REMOVAL



# 2-6. U BOARD REMOVAL

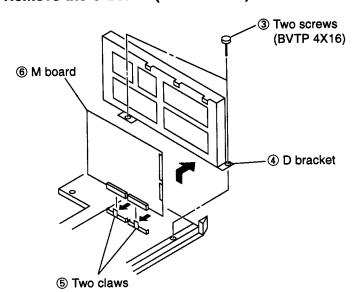


# 2-5. D BOARD REMOVAL

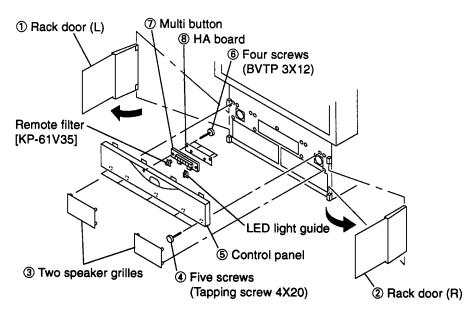


# 2-7. M BOARD REMOVAL

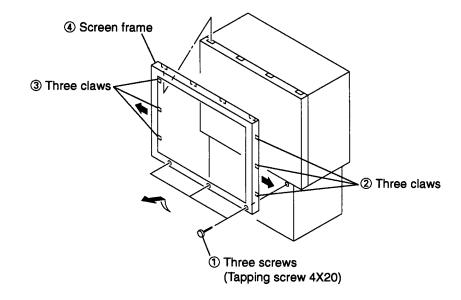
- ① Remove the D board. (Refer to 2-5.)
- ② Remove the U board. (Refer to 2-6.)



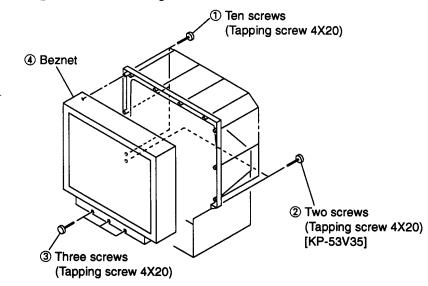
# 2-8. HA BOARD REMOVAL



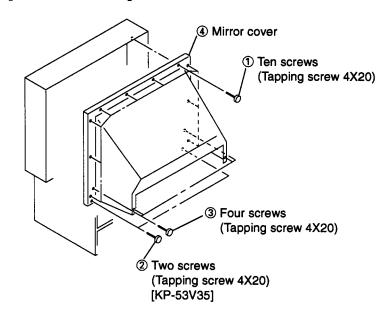
# 2-9-2. SCREEN FRAME REMOVAL [KP-61V35]



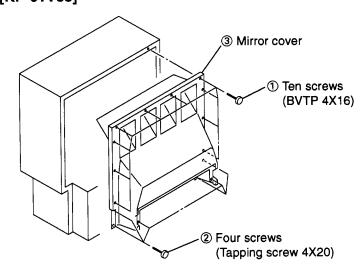
# 2-9-1. BEZNET REMOVAL [KP-46V35/53V35]



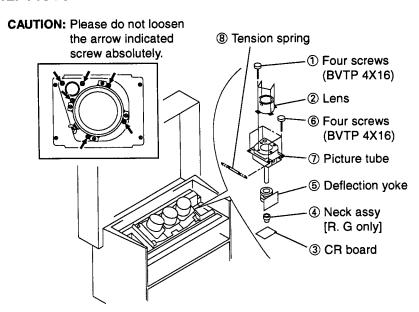
# 2-10-1. MIRROR COVER REMOVAL [KP-46V35/53V35]



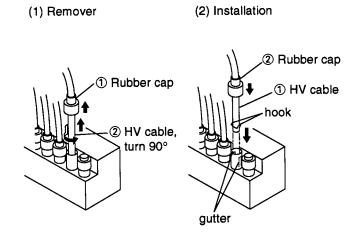
# 2-10-2. MIRROR COVER REMOVAL [KP-61V35]



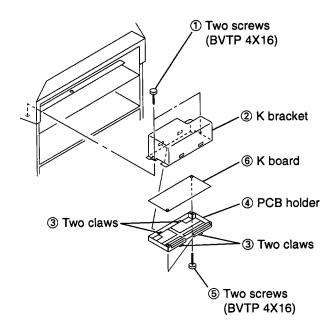
# 2-12. PICTURE TUBE REMOVAL



# 2-11. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



# 2-13. K BOARD REMOVAL



# SECTION 3 SAFETY RELATED ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (*☑ RESISTOR)			*■ R809, R988	E BOARD - COMPONENT SIDE -
When replacing the parts marked * on the right, check the HV hold down and adjust.		* marked parts C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R954, R955, R983, R984, R988, R991, R995, R996, R998, T803, FBT E board HV Block		CN886 CN885 CN884  ○ ○ ○ ○ ○ □ ○ → ○ ○ □ □ ○ → ○ ○ □ ■ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
<ol> <li>Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmeter.</li> <li>Input 130 VAC power.</li> </ol>	*Static Voltmeter	*HV Block		Remove the cap off from the unused terminal and connect a static voltmeter there.
Receive the *Dot siganl and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTUREminimum BRIGHTNESS	
<ol> <li>Connect a *33 kΩ variable resistor across the E board *CN885 connector (with the variable resistor set to its maximum).</li> </ol>			minimum	* CN885 O O E board VR33kΩ

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<ul> <li>5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmete reading of *33.7 ± 0.8 kVDC and that the rasters disappear.</li> <li>6. If the hold down circuit operates and the rasters disappear at a Static Voltmete meter reading of *34.0 VDC or higher, remove resistor *R809 and mount a *16.0 kΩ 1/4W RN at *R988. If the hold down circuit operates and the rasters disappear at a Static Voltmete reading of *32.0 VDC or lower, remove resistor R809 and mount *6.2 kΩ 1/4W RN at *R988.</li> <li>7. Check Item 5 again.</li> </ul>			*R988 *R988	*33.7 ± 0.8 kVDC  *34.0 VDC or higher *16.0 kΩ 1/4W  *32.0 VDC or lower *6.2 kΩ 1/4W  R988
HV REGULATION CIRCUIT CHECK AND ADJUSTMENT (*☑ RESISTOR)			*■ R808, R983	
<ol> <li>When replacing the parts marked * on the right, check the HV regulation and adjust.</li> <li>Remove the cap for the unconnected pin in the *high-voltage block and connect a *Static Voltmete.</li> <li>Input 120 VAC power.</li> </ol>	*Static Voltmete	* marked parts C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998		E BOARD – COMPONENT SIDE –  CN886 CN885  CN884  O O O O  MR809 MR808
Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.	*Dot pattern		*PICTUREminimum BRIGHTNESSminimum	

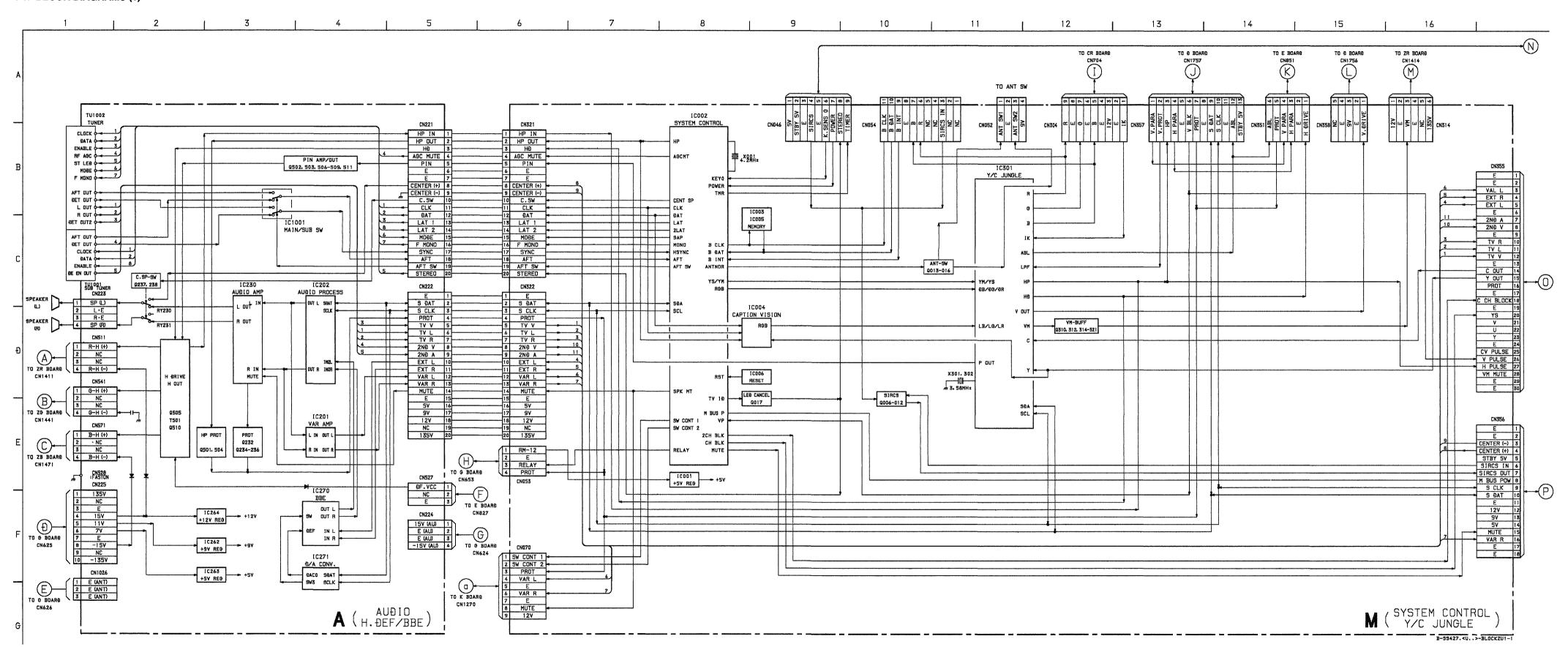
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<ol> <li>Check that the Static Voltmete reading is *31.0 ± 0.4 kVDC.</li> <li>If the Static Voltmete reading is *30.5 kV or lower, remove resistor *R808 and mount *5.6 kΩ 1/4W RN at *R983.</li> <li>If the Static Voltmete reading is *31.4 KV or higher, remove resistor *R808 and mount *8.2 kΩ 1/4W RN at *R983.</li> <li>If the Static Voltmete reading is *32.0 kV or higher, remove resistor *R808 and mount *10.0 kΩ 1/4W RN at *R983.</li> <li>If any of Items 5, 6 or 7 has been implemented, check Item 4 again.</li> </ol>			*R983 *R983 *R983	*31.0 ± 0.4 kVDC  *30.5 kV or lower *5.6 kΩ 1/4W *31.4 KV or higher *8.2 kΩ 1/4W  *32.0 kV or higher *10.0 kΩ 1/4W  *R8983
HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT  It is normally desirable that the HV hold down and HV regulation checks use a high-voltage meter. However, sometime one is not available, for example in the field, below is a simple adjustment method.  When replacing parts with the mark, replace both the resistors with the mark *R808 (R988) and *R809 (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors! Always replace both with resistors one rank lower.			*R808 (R988) *R809 (R983)	* E board CN886 CN885 O O O O O O O O O O O O O O O O O O O

ILLUSTRATION AND SHAPE AND NUMBER	*	C651   G653   VH   220kg	*120.0 ± 1.0 VAC, 60 Hz	*143.5 ± 5.5 VDC	*	5 6 64 0 0 1 ABL ammeter	*120.0 ± 1.0 VAC, 60 Hz
ADJUSTMENT LOCATION			*PICTUREminimum BRIGHTNESS	minimum minimum			*PICTURE
MEASUREMENT POSITION							
EQUIPMENT AND SIGNAL			*Dot pattern	*Digital Multimeter	*Ammeter		*Monoscope pattern
ADJUSTMENT ITEM AND PROCEDURE	OVERVOLTAGE PROTECTION (OVP) OPERATIONS  CHECK  1 Connect a #220 kO variable resistance rheostat to the G hoard	C655 (between Pins @ and © of IC651).	<ol> <li>Input *120.0 ± 1.0 VAC, 60 Hz power.</li> <li>Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	<ul> <li>4. Gradually lower the value of the connected variable resistance and check that when the +B line *voltage is *143.5 ± 5.5 VDC, the overvoltage circuit operates and the rasters disappear.</li> <li>5. Remove the variable resistor and check the +B line voltage.</li> </ul>	BEAM CURRENT (∑IK) PROTECTION CIRCUIT CHECK	Connect the "ADL annineter between 'rins (J and (J) of the CN884 on the E board.  Have Pins (2) and (3) open.	<ol> <li>Input *120.0 ± 1.0 VAC, 60 Hz power.</li> <li>Receive a *monoscope signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>

- 23 -

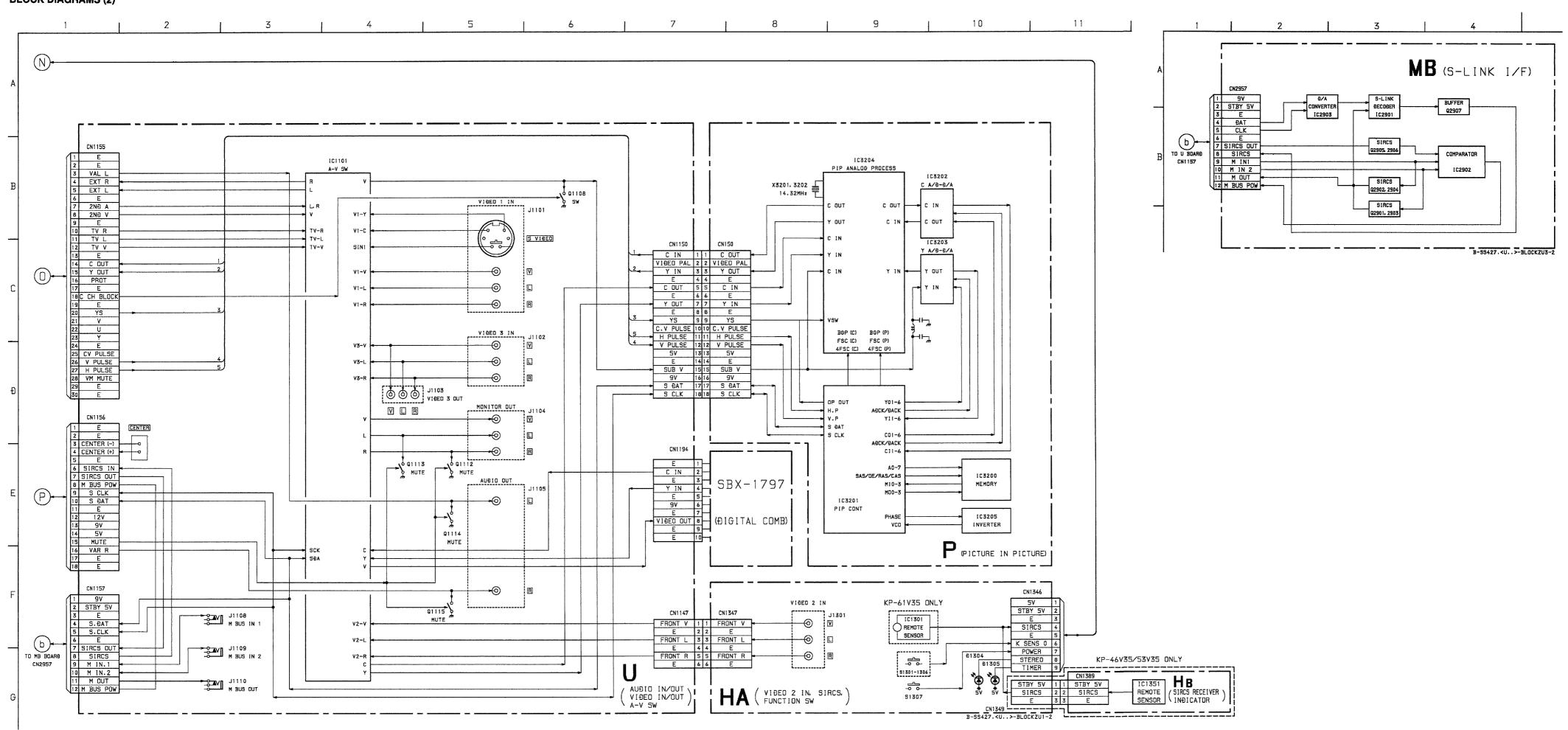
	<del>,</del>				
ILLUSTRATION AND SHAPE AND NUMBER	*Less than 3.35 mA	E BOARD – COMPONENT SIDE –	10651 4	*120.0 ± 1.0 V, 60 Hz	*135.0 ± 2.0 VDC *130.0 ± 2.0 VDC *Less than 137.0 VDC
ADJUSTMENT LOCATION	*PICTURE BRIGHTNESS			* PICTUREminimum BRIGHTNESS minimum	
MEASUREMENT POSITION					*CN681 pin ① *CN681 pin ①
EQUIPMENT AND SIGNAL				*Dot pattern	
ADJUSTMENT ITEM AND PROCEDURE	4. Gradually raise the *PICTURE and BRIGHTNESS settings and check that below an *ABL current of 3.35 mA (including dark current), the beam current protection circuit operates and the rasters disappear.	+B, +B MAX CHECK When replacing the G board IC651, check the following.		<ol> <li>Input *120.0 ± 1.0 V, 60 Hz power.</li> <li>Receive the *Dot signal and set the *PICTURE and BRIGHTNESS settings to their minimums.</li> </ol>	<ul> <li>3. Check that the *+B line voltage is now *135.0 ± 2.0 VDC.</li> <li>4. Set the power supply to *130.0 <sup>+2.0</sup>VAC.</li> <li>5. Check that the *+B line voltage is *137.0 VDC max.</li> <li>6. If either 3 or 5 is not satisfied, replace IC651 again.</li> </ul>

# 4-1. BLOCK DIAGRAMS (1)



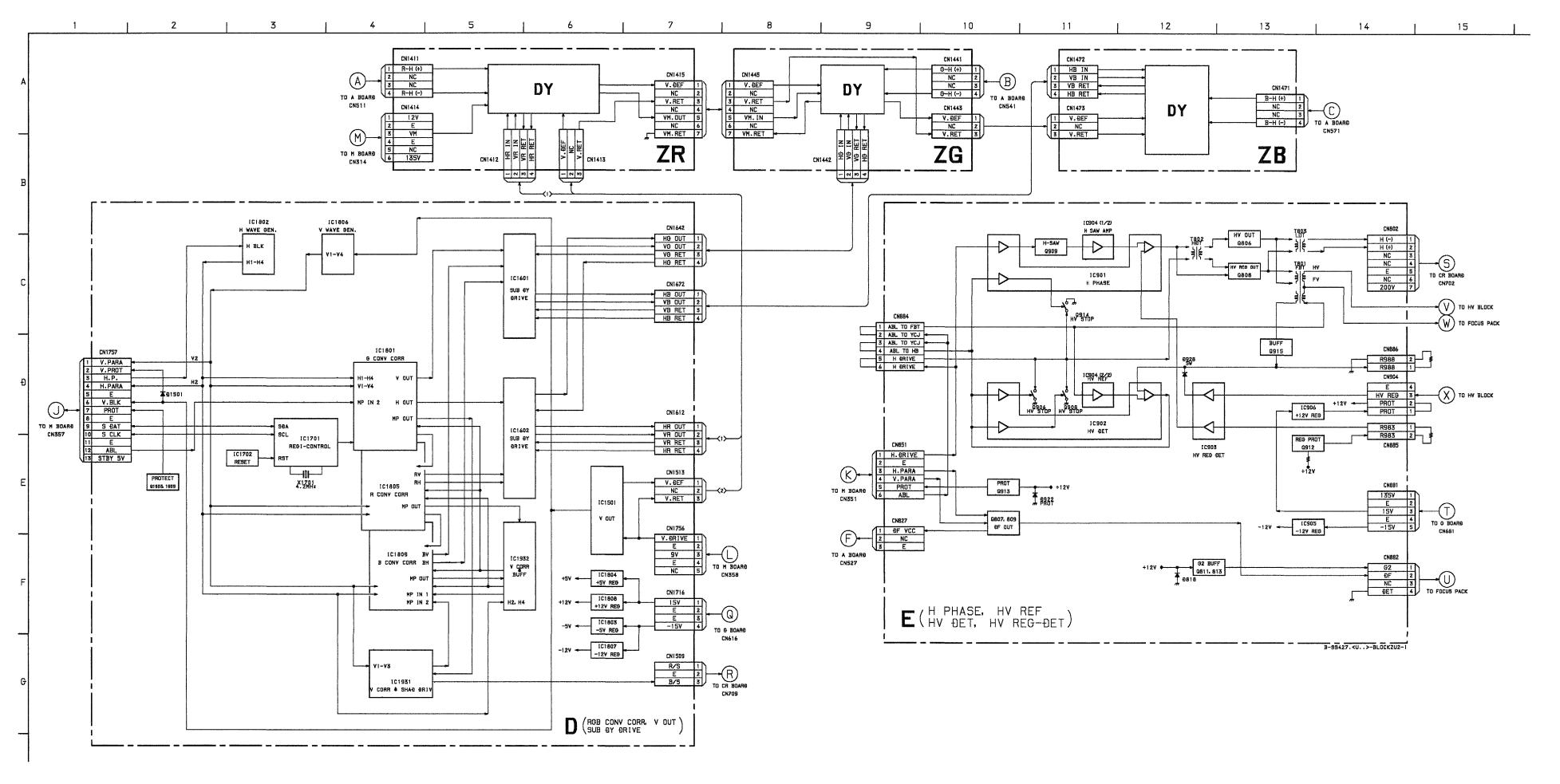
**- 27** -

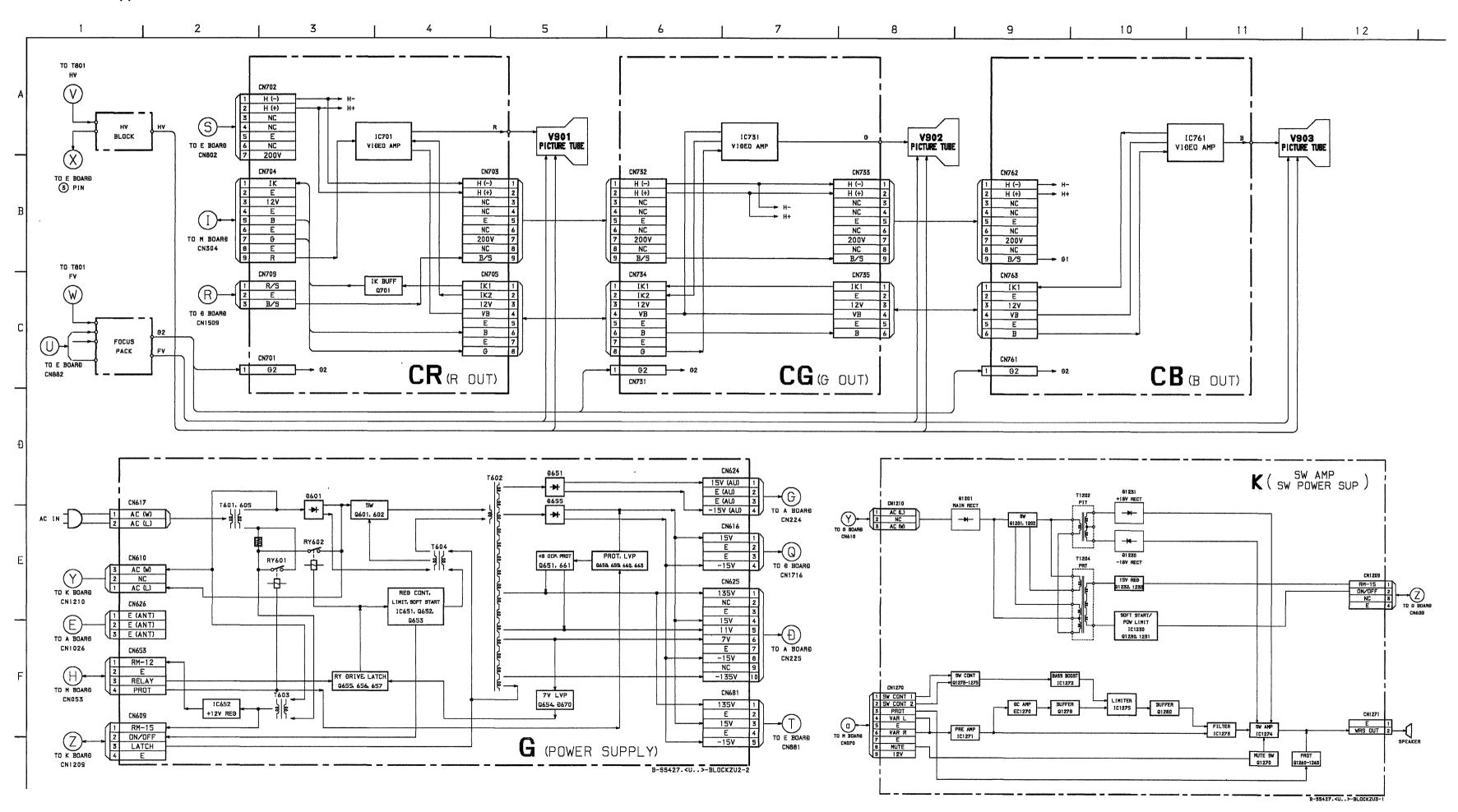
- 29 -



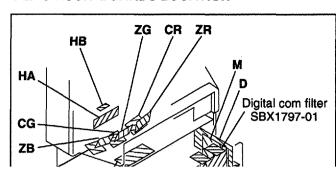
- 30 -

- 31 -





# 4-2. CIRCUIT BOARDS LOCATION



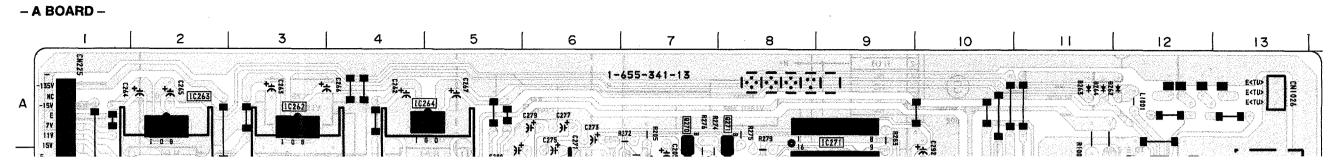
# Reference information RESISTOR : RN METAL FILM : RC SOLID : FPRD NONFRAMMABLE CARBON : FUSE NONFRAMMABLE FUSIBLE : RW NONFRAMMABLE WIREWOUND : RS NONFRAMMABLE METAL OXIDE : RB NONFRAMMABLE CEMENT : ※ ADJUSTMENT RESISTOR COIL : LF-8L MICRO INDUCTOR

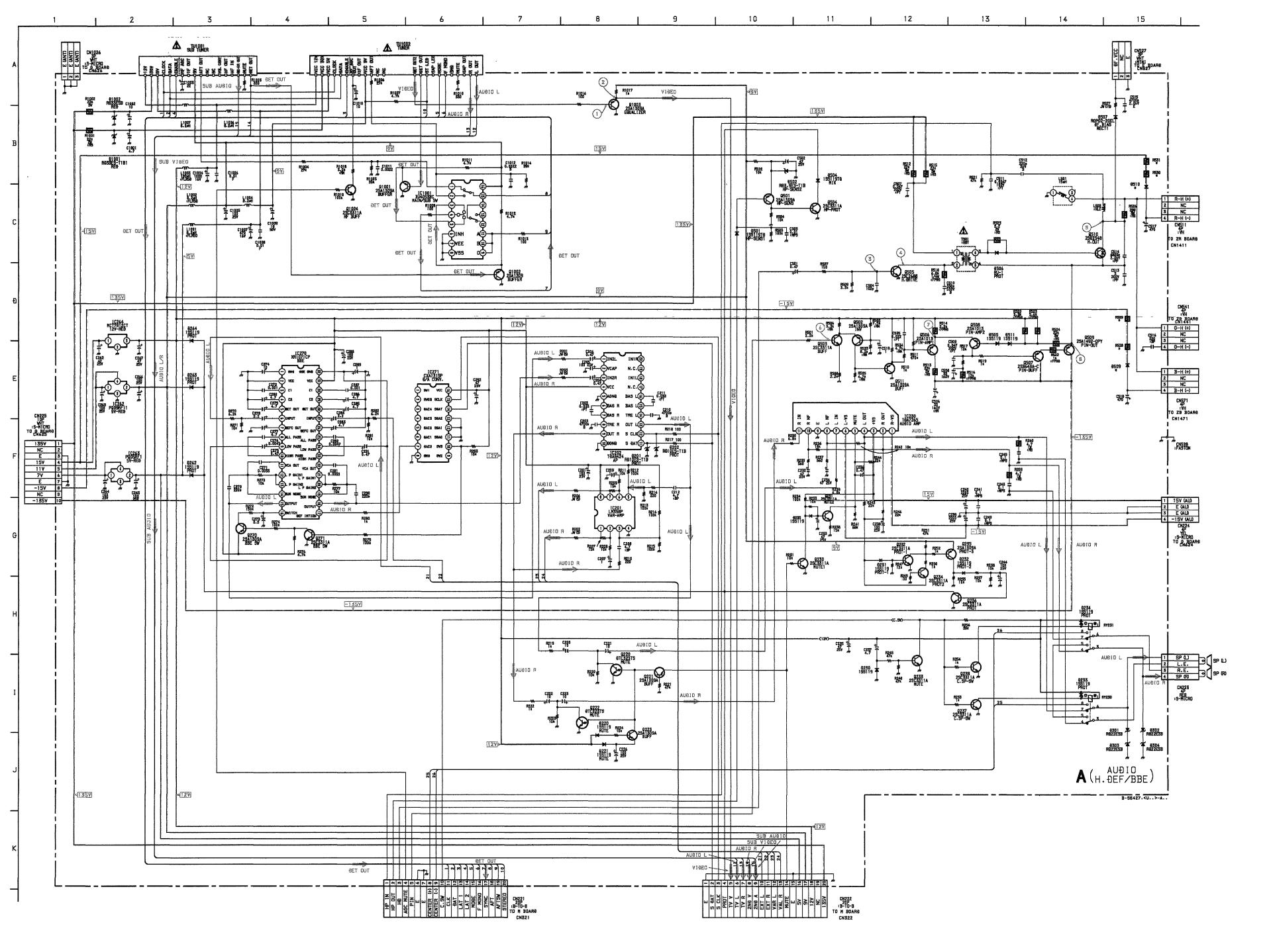
CAPACITOR : TA TANTALLIM



# A BOARD

	IC
IC201	B 9
IC202	B – 7
IC230	D-8
IC262	A – 3
IC263	A – 2
IC264	A – 5
IC270	B – 6
IC271	A - 9
IC1001	F – 11





# A BOARD TRANSISTOR VOLTAGE LIST

A BOAR	D IC	VOLTAC	E LIS	ST T			Å	ALL VOL	TAGES	ARE IN
IC201	1	6.1	3	61	5	6.1	7	6.1		
	2	6.1	4	GND	6	6.1	8	120		
IC202	1	6.0	5	GND	9	6.1	13	6.1	17	NC
	2	12.0	6	6.1	10	GND	14	6.1	18	NC
	3	6.0	7	6.1	11	4.6	15	6.1	19	NC
	4	12.0	8	6.1	12	4.6	16	6.1	20	NC
IC230	1	-16.3	4	0	7	0	10	0		
	2	0	5	10.6	8	0	11	0		
	3	15.0	6	-16.3	9	GND				
IC262	i	11.0	2	9.0	3	GND	4	11.0		
IC263	1	7.0	2	5.0	3	GND	4	7.0		
IC264	1	15.0	2	GND	3	12.0				
IC270	1		8		15	***************************************	22		29	
1	2	GND	9		16		23		30	
[	3		10		17		24		31	12.0
	4		11		18		25		32	
	5		12	GND	19		26			
	6		13	GND	20		27			
	7		14	GND	21		28			
IC271	1	NC	5	NC	9	NC	13	GND		
	2	NC	6	NC	10		14			
	3	NC	7		11	GND	15			
	4	NC	8	GND	12	GND	16	12.0		
IC1001	1		5		9		13	NC		
1	2		6	GND	10		14	NC		
	3		7	GND	11		15			
1	4		8	GND	12	NC	16	9.0		

	Ε	С	В
Q220	GND	0	2.8
Q221	2.8	2.8	2.2
Q222	GND	0	2.8
Q223	11.9	2.8	11.1
Q230	GND	0	0.7
Q231	0	10.6	0
Q232	GND	9.0	0
Q233	GND		
Q234	0	9.0	0
Q235	9.0	0	9.0
Q236	GND	4.6	0
Q237	GND		
Q238	GND		
Q270	12.0		
Q271	GND		
Q501	3.2	0	4.1
Q502	6.9	0.9	6.4
Q503	3.1	6.9	3.7
Q504	GND	4.9	0
Q505	GND	63.7	-0.7
Q506	2.1	-54.0	1.6
Q507	-124.3	-137.3	-121.6
Q508	2.1	-121.6	1.7
Q509	-122.9	-137.3	-123.2
Q510	-122.9	*	-123.5
Q511	1.6	GND	0.9
Q1001		GND	
Q1002	9.0	GND	
Q1003	5.6	GND	5.1
Q1004	GND	0	0

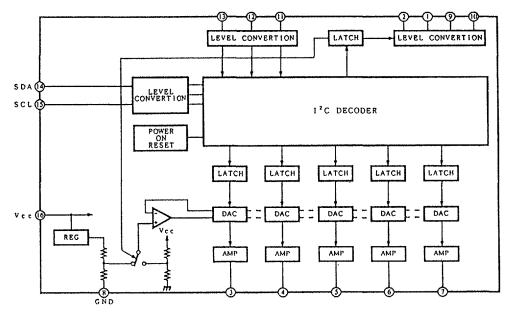
# A BOARD \* MARK

Ref. No.	KP-46V35 (U/C)	KP-53V35 (US)	KP-61V35 (US)		
D509	V09G	V09G V09G			
D510	V09G	V09G	-		
R528	270 3W	270 3W			
R529	270 3W	270 3W	-		
R530	270 3W	270 3W	-		
R531	270 3W	270 3W	-		
	1	1	1		

-: NOT MOUNT

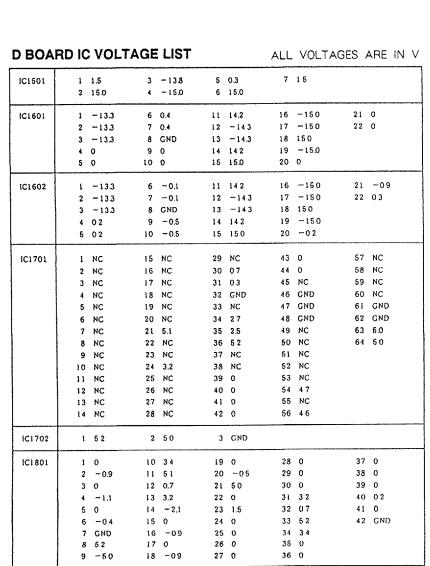
# A BOARD IC202 TDA8424

# A BOARD IC201 LM358P



# 1.9 Vp-p (H) 2.3 Vp-p (H) 885 Vp-p (H) 0.6 Vp-p (V) 24.6 Vp-p (V) 1.3 Vp-p (V)

• A BOARD WAVEFORMS



1803	1	-5.0	2	-150	3	GND				
1804	1	50	2	GND	3	15.0				
1805	L	0	10	3.4	19	0	28	0	37	0
	2	- 0.9	11	5 2	20	-05	29	0	38	0
	3	0.2	12	0.7	21	50	30	11	39	0
1	4	-1.1	13	3.2	22	0	31	3 2	40	-05
1	5	0	14	-21	23	0	32	0.7	41	-0.1
	6	-04	15	0	24	0	33	5 1	42	GND
	7	5 l	16	-09	25	0.4	34	3.4		
	8	5 2	17	0	26	0	35	0		
	9	-50	18	-09	27	0	36	0		
C1806	1	02	5	- 0.9	9	-50	13	0 4	17	1.3
1	2	1.3	6	0	10	0.3	14	13	18	-1.6
1	3	50	7	-1.0	11	06	15	GND		
	4	0	8	0	12	-09	16	-15	_	
C1807	1	-120	2	-150	3	GND				
C1808	1	120	2	GND	3	150				
C1809	i	0	11	3 4	1	9 0	28	0	37	0
	2	-09	1	1 5.1	2	0 -0.5	29	0	38	0
	3	02	1	2 0.7	2	1 50	30	0 4	39	0
1	4	-11	1	3 32	2	2 0	31	NC	40	0.4
1	6	0	1	4 -2.2	2	3 -0.7	32	NC	41	0
	6	-04	1	5 0	2	4 0	33	NC	42	GND
1	7	-50	1	6 -09	2	5 0	34	NC		
	8	5 1	1	7 0	2	6 0	35	0		
	9	-50	1	8 -09	2	7 0	36	0		
C1931	1	0	4	12.0	7	0.4	10	NC	13	0
į	2	0	5	0	8	NC	11	-120	14	0
	3	0	6	0	9	NC	1 2	GND		
C1932	1	07	4	120	7	-07	10	0	13	0
1	2	0	5	GND	8	0		-120	1 4	0
	3	GND	6	0	9	0	12	0		"

# D BOARD TRANSISTOR VOLTAGE LIST

5 -09

13 04

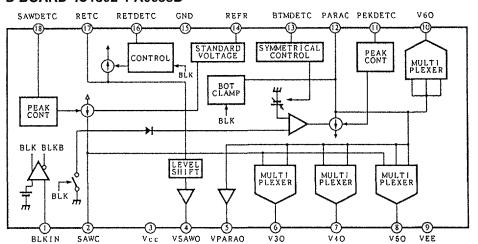
6 0 10 03 14 13 7 -1.1 11 0.6 15 GND

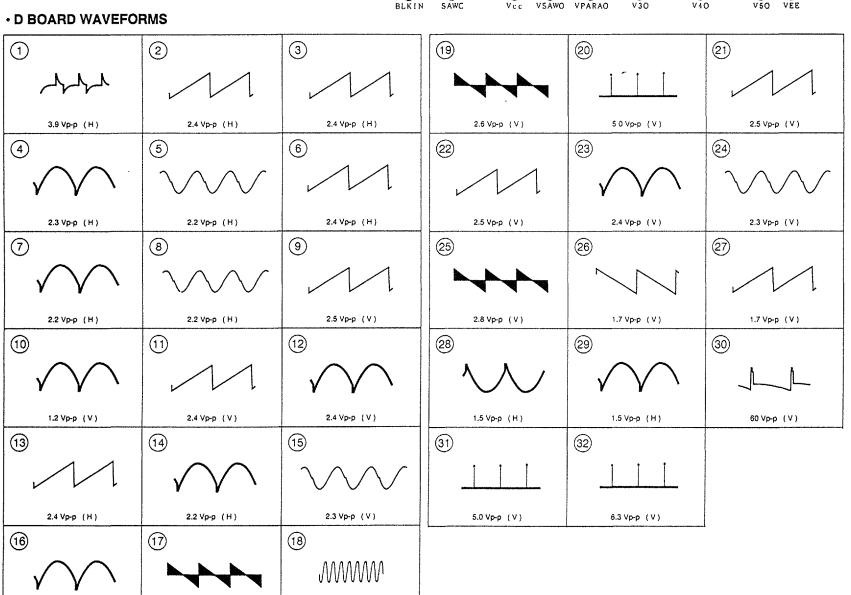
17 1.3

18 -16

L	E	C	В
Q1501	0.2	9.0	-0.5
Q1551	4.0	2.1	3.4
Q1552	1.5	12.0	2.1
Q1701	GND	3.5	0.3
Q1801	2.6	5.0	3.2
Q1802	- 2.5	-5.0	-3.1
Q1803	GND	4.8	0
Q1804	-0.3	0	-0.9
Q1805	GND	4.8	0

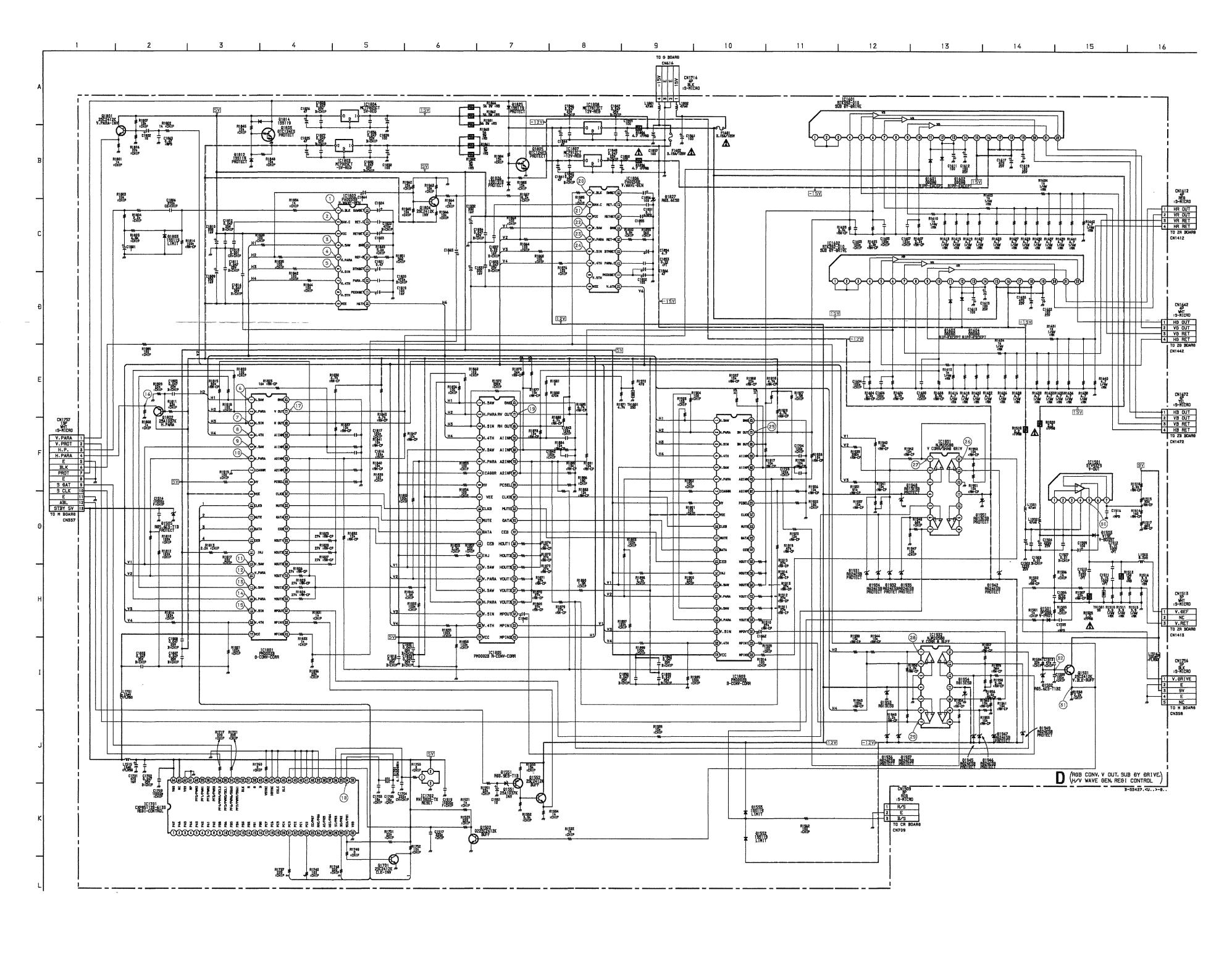
# D BOARD IC1802 PA0053B





4.2 MHz

**- 45 -**

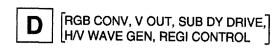


2.1 Vp-p (H)

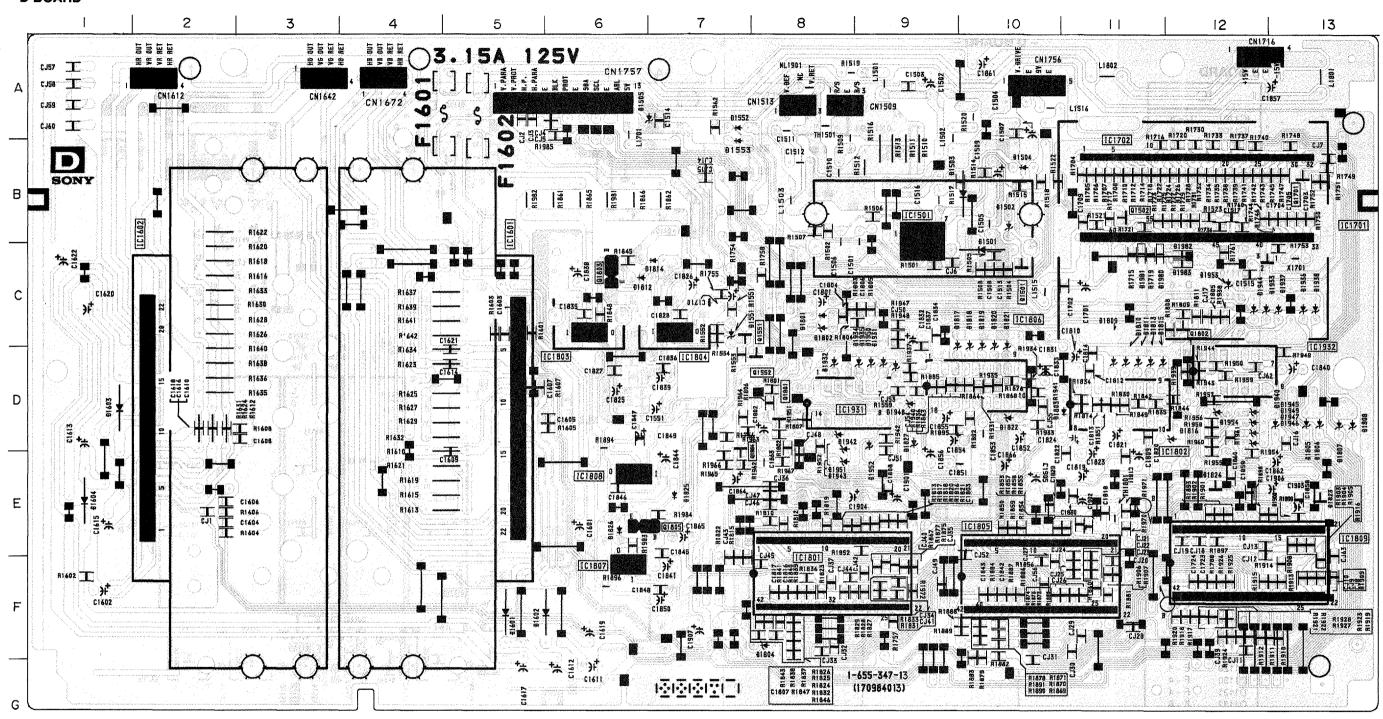
2.6 Vp-p (V)

**- 46 -**

**- 47 -**







# D BOARD

1	С	IC1807	F-7	Q1802	C-12	D1601	F-5	D1935	D - 9
		IC1808	E – 7	Q1803	C-6	D1602	F-6	D1936	C - 13
IC1501	C - 9	IC1809	F-12	Q1804	E-8	D1603	D - 2	D1937	C - 13
IC1601	C - 5	IC1931	D-9	Q1805	E - 7	D1604	E - 1	D1942	E-9
IC1602	D - 2	IC1932	D 13	DIC	\D.E	D1803	D-11	D1945	D - 13
IC1701	8 – 12	TDANIC	SISTOR	DIC	DDE	D1812	C-7	D1946	E - 13
IC1702	C - 12	IRAN	חטופוכ	D1501	C - 10	D1814	C-7	D1947	E - 13
IC1801	F-9	Q1501	C - 10	D1502	B - 10	D1825	E - 7	D1948	D-9
IC1802	D - 12	Q1502	B - 11	D1503	B - 10	D1826	E-6	D1949	D - 13
IC1803	D-6	Q1551	D-8	D1505	A - 6	D1827		D1951	E-9
IC1804	D - 7	Q1552	D-8	D1551	D-8	D1931	D - 9	D1953	C-12
IC1805	F - 10	01701	B - 13	D1552	B - 8	D1932	D-9	D1954	D - 12
IC1806	D - 10	Q1801	D - 8	D1553	B – 8	D1934	D - 9		
ŧ		3		i		1		1	



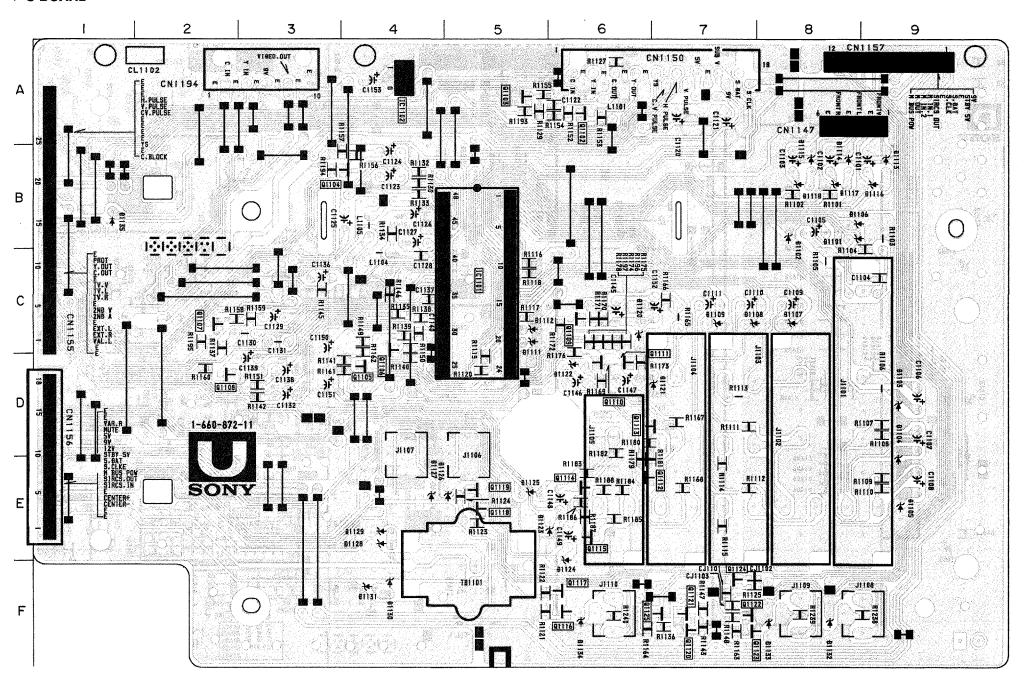
# - U BOARD -

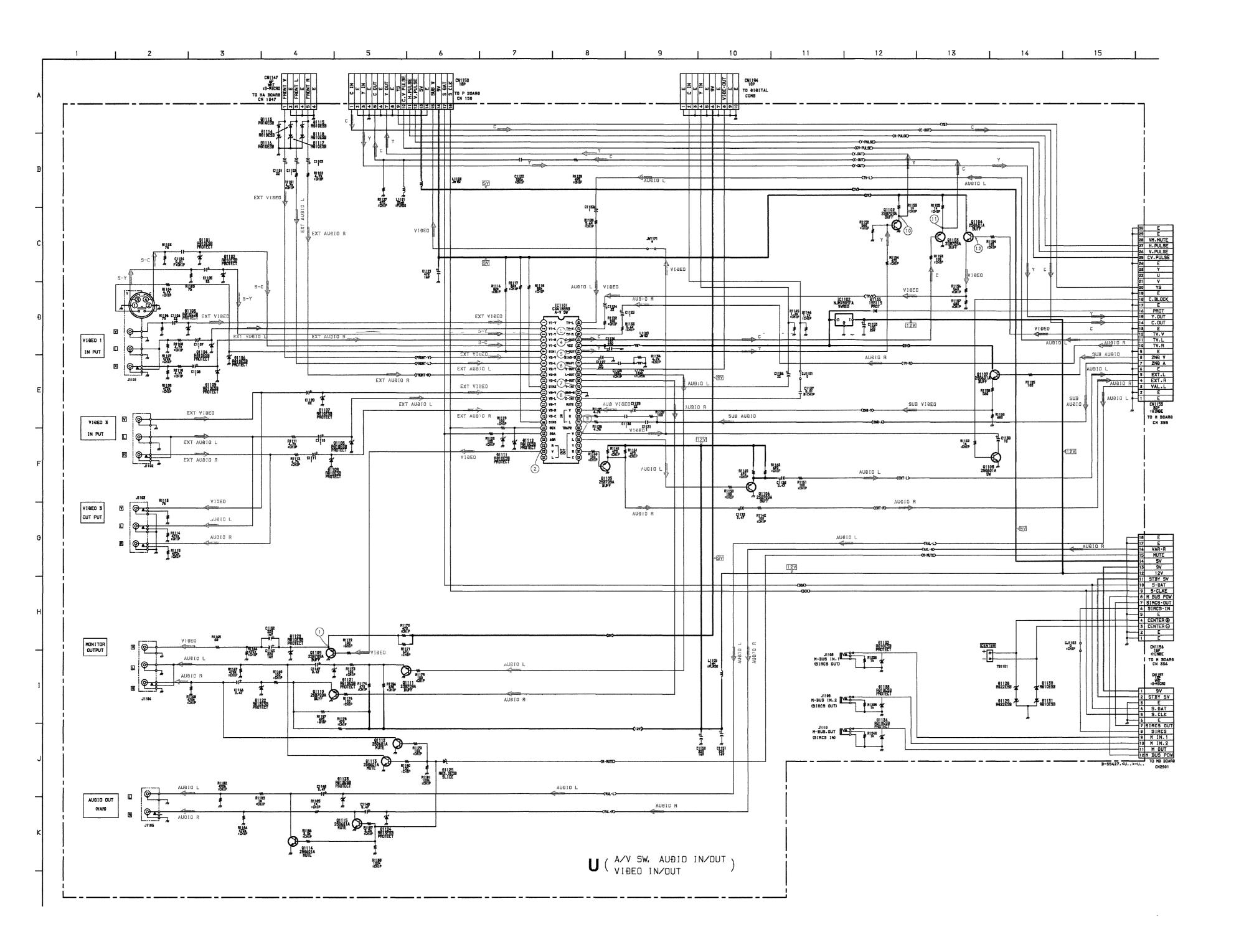
U BOARI	U BOARD					
IC						
IC1101 IC1102	C – 5 A – 4					
TRANS	TRANSISTOR					
Q1102 Q1103 Q1104 Q1105 Q1106 Q1107 Q1108 Q1109 Q1110 Q1111 Q1112 Q1113 Q1114 Q1115	A - 6 A - 7 B - 4 D - 2 D - 2 D - 7 E - 7 E - 6					
DIC	DDE					
D1101	B 8					

#### D1101 B-8 D1102 B-8 D1103 D - 9 D1104 D-9D1105 E - 9 D1106 B - 8 C - 8 D1107 D1108 C-7D1109 C-7 D1111 C-5 D1112 D1113 B – 9 D1114 B - 8 D1115 B - 8 D1116 B-9 D1117 B - 8 D1118 D1120 C - 6 D - 7 D1121 D1122 D-6D1123 E -- 6 D1124 F-6 D1125 E - 5 D1128 D1129 E - 4 D1130 F – 4 D1131 F - 4 F-8 D1132 D1133 F-8 D1134 F-6

B - 1

D1135





U BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V

IC1101	1	4.7	11	NC	21	NC	31	4.7	41	4.7	
	2	4.7	12	5.0	22	NC	32	4.7	42	4.7	
	3	4.7	13	4.7	23	4.6	33	4.7	43	4.4	
	4	4.7	14	4.7	24	NC	34	NC	44	9.0	
	5	4.7	15	NC	25	NC	35	4.7	45	4.7	
	6	5.0	16	4.7	26	4.8	36	GND	46	4.7	
1	7	3.6	17	NC	27	NC	37	4.7	47	4.7	
I	8	4.7	18	5.0	28	4:8	38	4.8	48	4.7	
1	9	NC	19	4.6	29	4.6	39	4.8			
	10	4.7	20	4.6	30	4.7	40	4.6			
Ī											

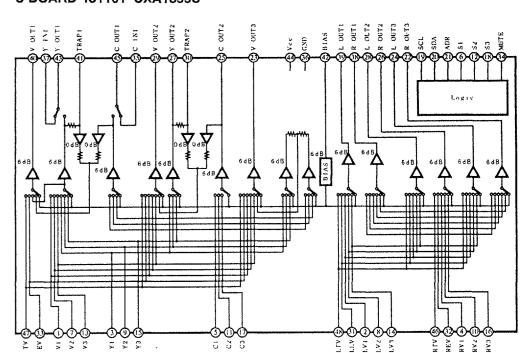
# U BOARD TRANSISTOR VOLTAGE LIST

	Е	С	В	
Q1102	3.1	GND	2.5	
Q1103	5.3	GND	4.7	
Q1104	5.1	9.0	5.8	
Q1105	5.4	GND	4.8	
Q1106	5.4	GND	4.8	
Q1107	0	9.0	-0.3	
Q1108	GND	0.9	-1.1	
Q1109	5.3	GND	4.6	
Q1110	5.4	GND	4.8	
Q1111	5.4	GND	4.8	
Q1112	GND	0	0	
Q1113	GND	0	0	
_Q1114	GND_	0	0 _	
Q1115	GND	0	0	

# · U BOARD WAVEFORMS

1	2	3
_p.	Je Barriera	
1.9 Vp-p (H)	1.9 Vp-p (H)	1.0 Vp-p (H)
4	5	6
- party party	_f5_f5_	-party francis
1.9 Vp-p (H)	1.7 Vp-p (H)	1.9 Vp-p (H)
7	8	9
47,421,	-party-arth-	-party fair
1.8 Vp-p (H)	1.8 Vp-p (H)	1.9 Vp-p (H)
10	11)	12
A,A		
1.0 Vp-p (H)	1.8 Vp-p (H)	1.8 Vp-p (H)

# U BOARD IC1101 CXA1855S



OARD TRANSISTOR VOLTAGE LIST

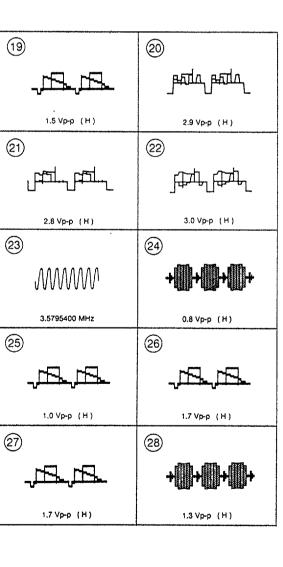
ALL VOLTAGES ARE IN V .	1 E	3	(	
-------------------------	-----	---	---	--

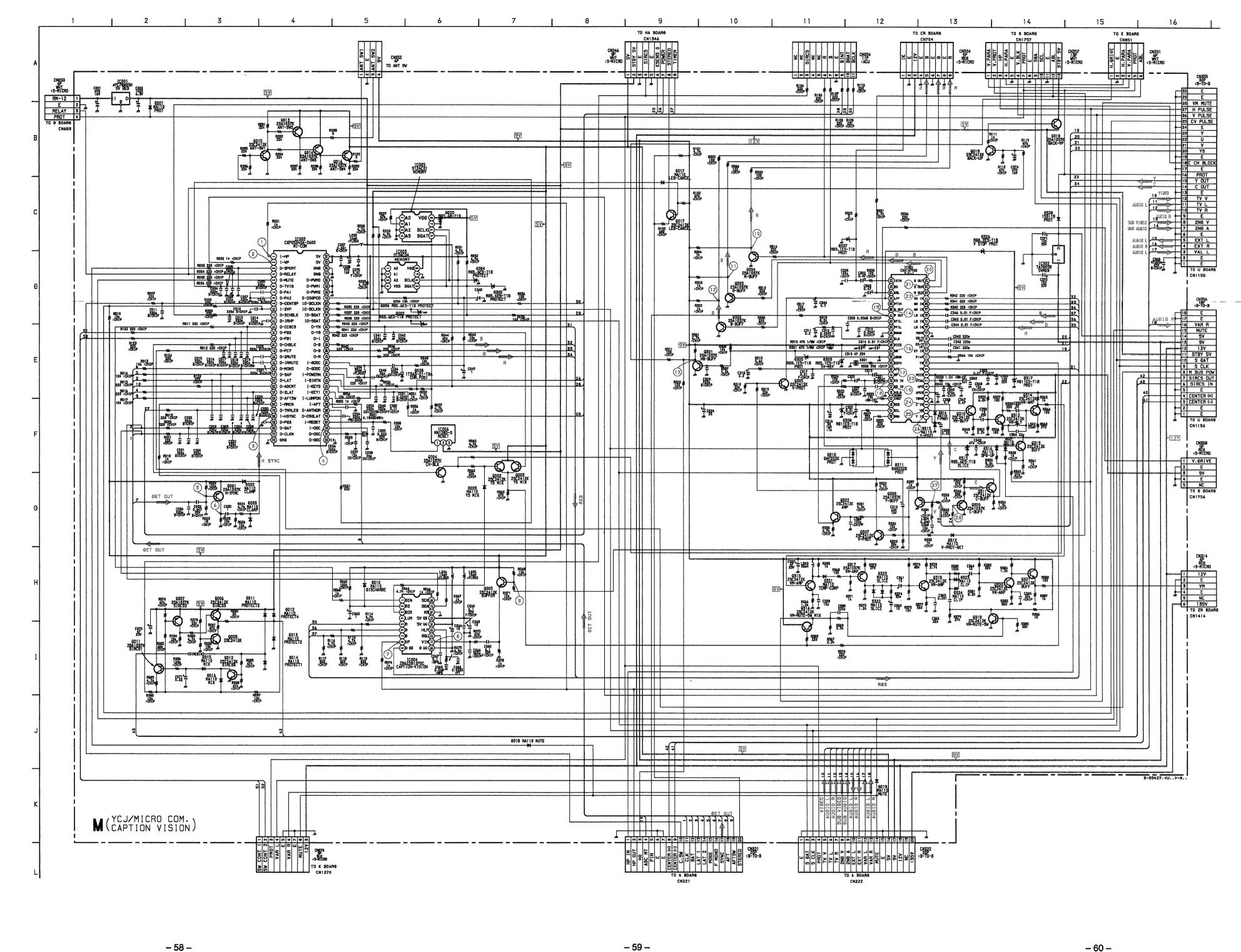
502										
[C001	1	12.0	2	GND	3	5.0				
(C002	1	0.8	15	0	29	0	43	5.1	57	3.2
	2	0.2	16	0	30	5.0	44	5.1	58	GND
	3	4.8	17	0	31	5.0	45	3.0	59	GND
	4	4.5	18	5.1	32	GND	46	3.0	60	GND
	5	0	19	0	33	0	47	0	61	GND
	6	5.2	20	0	34	2.6	48	0	62	GND
	7	5.1	21	0	35	2.3	49	0	63	5.0
	8	0	22	0	36	5.1	50	NC	64	5.0
	9	0	23	0	37	0	51	0		
	10	5.1	24	0	38	5.1	52	0		
	11	0	25	0	39	2.3	53	4.6		
	12	0	26	5.1	40	GND	54	4.6		
	13	0	27	5.1	41	5.1	55	4.6		
	14	0	28	0	42	5.1	56	4.6		
IC003	1	GND	3	GND	5	4.6	7	GND		
	2	GND	4	GND	6	4.6	8	5.0		
[Ç004	1	0	5	0	9	GND	13	2.2	17	5.0
	2	5.0	6	0	10	GND	14	5.0	18	5.0
	3	0	7	0	11	1.8	15	5.0		
	4	NC	8	0.9	12	1.7	16	GND		
IC005	1	GND	3	GND	5	4.6	7	GND		
	2	5.1	4	GND	6	4.6	8	5.Ò		
IC006	1	5.1	2	5.2	3	GND				
IC301	1	4.4	11	0	21	0	31	3.7	41	3.4
	2	7.4	12	5.0	22	1.7	32	3.0	42	3.6
	3	5.4	13	5.7	23	1.7	33	3.7	43	3.0
	4	GND	14	5.7	24	1.6	34	GND	44	GND
	5	4.1	15	GND	25	5.4	35	4.7	45	3.6
	6	5.5	16	6.0	26	NC	36	5.1	46	9.0
	7	2.5	17	6.0	27	*	37	4.0	47	4.6
	8	9.0	18	6.0	28	8.9	38	GND	48	4.6
	9	0	19	6.0	29	NC	39	2.5		
	10	0	20	0	30	3.0	40	4.3		
IC302	1	5.0	2	GND	3	9.0				

	Ε	С	В
Q001	5.0	0.8	5.3
2002	0	5.0	0.7
2003	0	5.0	0
2004	0.7	GND	0
2005	3.4	5.0	4.2
2006	0	5.2	0.7
2007	5.2	0	5.1
8000	0	0	5.1
2009	GND	5.2	0
2010	0	0	5.1
Q011	5.2	5.1	4.8
2012	GND	5.0	0
Q013		5.0	
2014	5.0		
2015	GND		
2016	5.0		
2017	9.0	5.3	5.7
8100	5.0	5.0	4.4
2019	GND	0.2	0.7
301	2.7	GND	4.1
302	2.6	GND	1.9
303	2.6	GND	1.9
2304	2.6	GND	1.9
2305	GND	8.9	0
2307	GND	0	0.7
2308	3.1	GND	2.3
2309	4.0	GND	3.4
2310	6.8	9.0	7.4
2311	5.4	9.0	6.1
2312	1.5	7.6	2.2
2313	0.9	9.0	0.4
2314	0.9	6.0	1.5
Q315	5.3	9.0	6.0
2316	0	9.0	0
2317	8.2	3.7	7.6
2318	0.7	5.9	1.4
Q319	GND	0.3	0
Q320	1.2	6.1	1.8
Q321	5.4	9.0	6.1
2322	2.5	9.0	3.2

# M BOARD WAVEFORMS

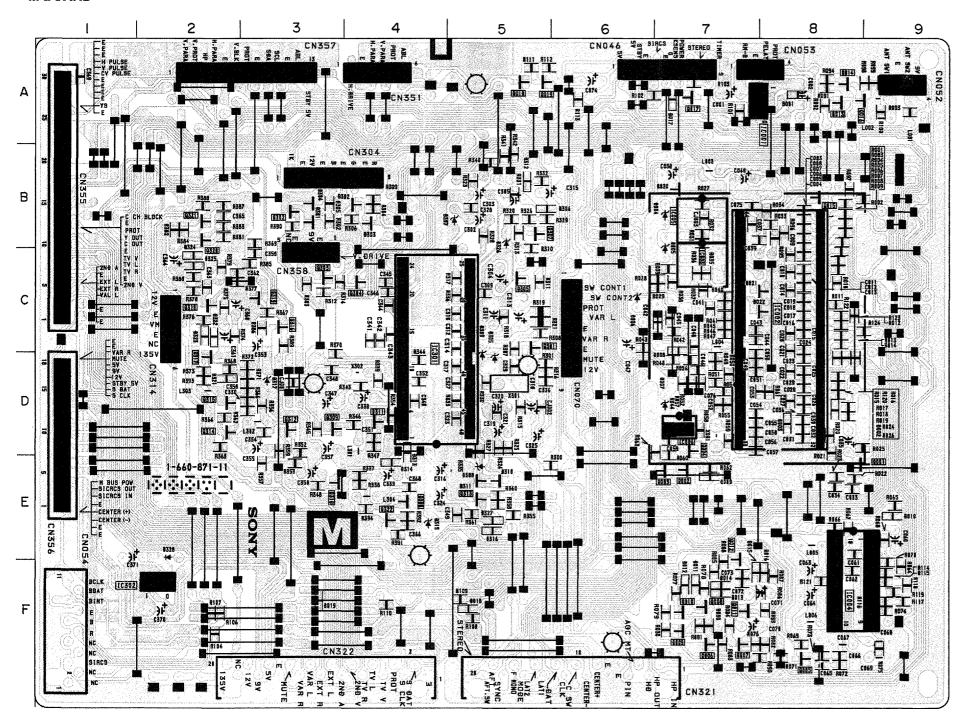
1	2	3	19		20
			_	<u>, fa, fa, </u>	म्यार म्य
4.5 Vp-p (H)	5 Vp-p (V)	4.5 Vp-p (H)		1.5 Vp-р (Н)	2.9 Vp-р (Н
4	5	6	21)		22
MMM	-p. 1		<u> </u>	<del>1</del> 44-7	THE STATE OF THE S
4.2 MHz	1.8 Vp-р (Н)	4.5 Vp-p (H)		2.8 Vp-p (H)	3.0 Vp-p (H
7	8	9	23	•	24
	,A,A	-FA-FA-		$\mathcal{M}$	+[]+[]+
4.5 Vp-p (H)	0.8 Vp-p (H)	0.8 Vp-p (H)		3.5795400 MHz	0.8 Vp-p (H)
100	11)	12	25		26
J##J##\	الجيا الجيا	hayor hayor			75-75
3.0 Vp-p (H)	2.9 Vp-p (H)	3.0 Vp-p (H)		1.0 Vp-p (H)	1.7 Vp-p (H)
(13)	14	15	27		28
		$\wedge \wedge \wedge$			+[]+[]+
2.6 Vp-p (H)	1.6 Vp-p (V)	0.6 Vp-p (V)		1.7 Vp-p (H)	1.3 Vp-p (H)
16)	179	18			
		-EL-EL-			
8.0 Vp-p (H)	6.2 Vp-p (H)	1.5 Vp-p (H)			







# - M BOARD -



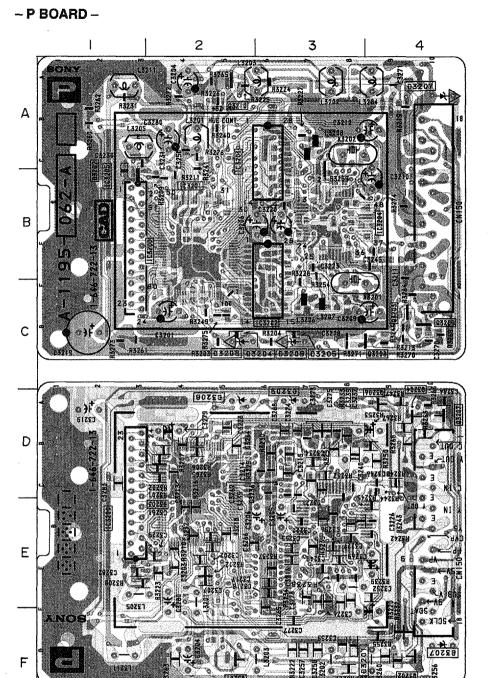
# M BOARD

IC	Q319 Q320	C - 3 C - 2
IC001 A - 8 IC002 C - 8 IC003 C - 7	Q321 Q322	B - 2 E - 4
IC004 F = 8 IC005 B = 7	DIC	DDE
IC006 D - 7 IC301 D - 4 IC302 F - 2	D001 D002 D003 D004	A – 8 D – 8 D – 8 B – 7
TRANSISTOR	D005 D006	C – 7 C – 6
Q001 E-9 Q002 E-7 Q003 E-7 Q004 D-7 Q005 F-8 Q006 F-7 Q007 F-7 Q009 F-7 Q011 E-7 Q012 E-7 Q013 A-8 Q014 A-8 Q015 B-8 Q016 A-8 Q017 A-7 Q018 A-5 Q019 A-5 Q019 C-5 Q001 C-5 Q001 B-3 Q001 C-5 Q001 B-3 Q001 C-5 Q001 B-3 Q001 C-5 Q00	D006 D007 D008 D009 D010 D011 D012 D013 D014 D015 D016 D017 D018 D019 D020 D306 D307 D308 D309 D310 D311 D312 D313 D314 D315 D316 D317 D322 D323 D324 D326 D327 D328	CDDEEFFFFAFFBCBECEEBEEEDDCCCCBEE -7779777787537555554445322222552

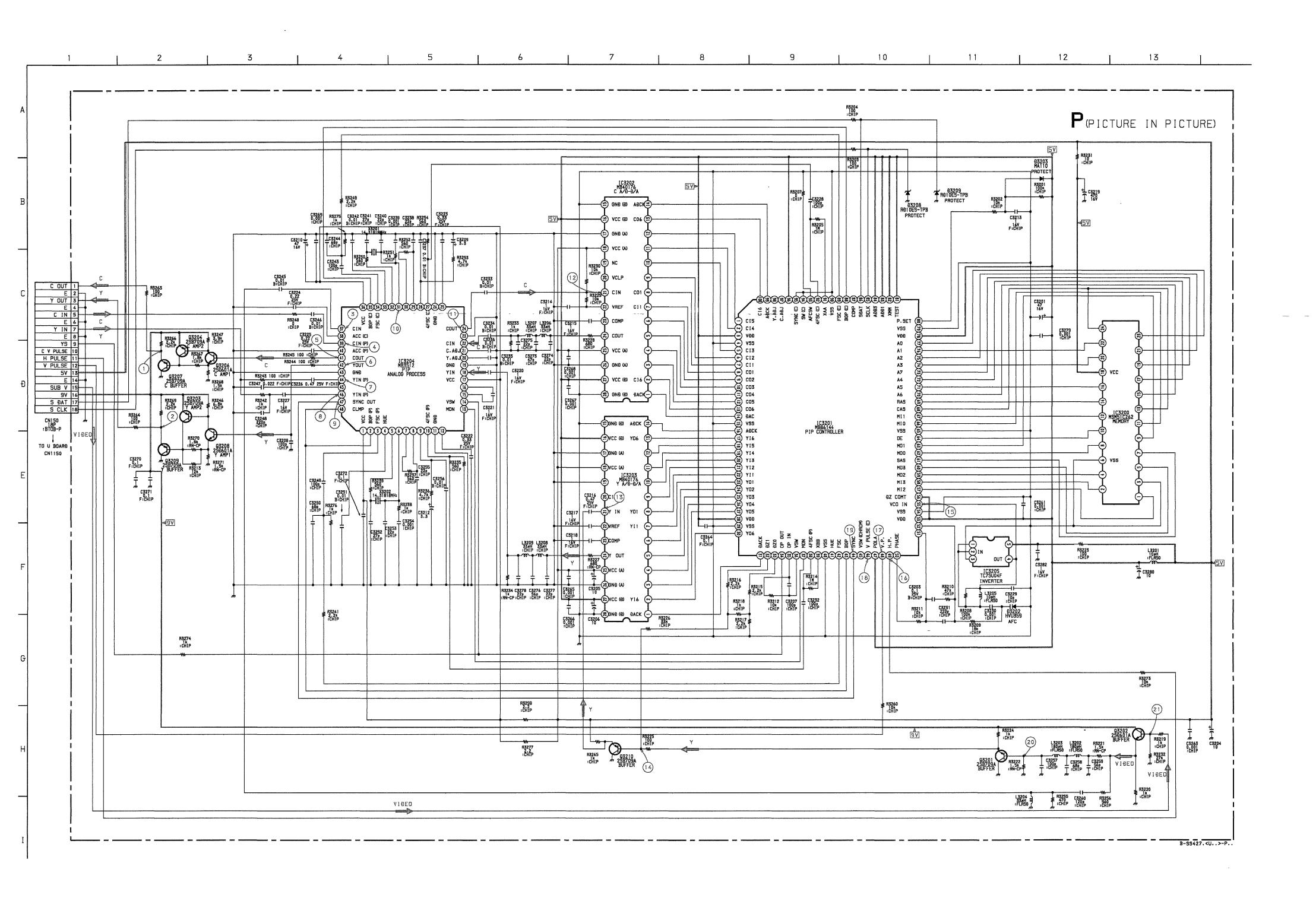
# [PICTURE IN PICTURE]

# P BOARD

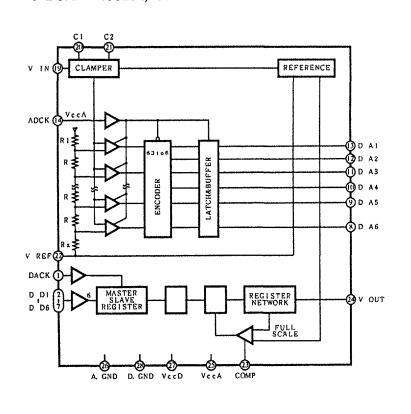
IC					
IC3200	E – 1				
IC3201	B - 2				
IC3202	C - 3				
IC3203	B - 3				
IC3204	B - 3				
IC3205	B – 1				
TRANSISTOR					
Q3201	F-2				
Q3202	F – 4				
Q3203	C - 4				
Q3204	D - 4				
Q3206	D - 4				
Q3207	D-4				
Q3208	C - 3				
Q3209	C – 4				
Q3210	A – 2				
DIODE					
D3202	B - 1				
D3203	D-2				
D3208	D - 2				
D3209	D - 3				



- Pattern from the side which enables seeing.
   Pattern of the rear side.



#### P BOARD IC3202, IC3203 MB40176



IC3200				CHE						
103200	1 2	*	6 7	GND 1.5	11 12	2 3 2.4	16 17	2 1 2.5	21 22	2.5 2.5
	3	GND	8	*	13	4.0	18	5.0	23	2.5
ļ	4	*	9	2.0	14	3.2	19	2.5	24	4.0
	5	*	10	1.9	15	2.7	20	2.5	24	4.0
IC3201	1	3.1	21	2.0	41	4.9	61	*	81	5.0
l	2	3.1	22	2.3	42	2.5	62	*	82	5.0
}	3	50	23	5.0	43	4.7	63	*	83	5.0
1	4	GND	24	5.0	44	3.7	64	*	84	5.0
1	5	0	25	0	45	NC	65	GND	85	4.6
1	6	2.9	26	0	46	0	66	2.3	86	4.6
1	7	2.8	27	5.0	47	5.0	67	2.4	87	NC
	8 9	0	28	5.0 CND	48	0.2	68	4.0	88	4.7
	10	0.2	29 30	GND 0	49 50	0.8 2.5	69 70	3.2 2.7	89 90	2.5 GND
1	11	0.2	31	2.9	51	2.5		2.1		2.5
1	12	0.2	32	2.9	52	3.4	71 72	2.5	91 92	2.5
İ	13	4.9	33	2.2	53	5.0	73	2.5	93	GND
1	14	2.6	34	4.9	54	GND	74	2.5	94	GND
1	15	GND	35	5.D	55	2.5	75	2.5	95	GND
1	16	2.7	36	5.0	56	5.0	76	2.5	96	50
1	17	0	37	0.2	57	*	77	2.3	97	NC
	18	2.9	38	2.4	58	*	78	5.0	98	NC NC
	19	0.7	39	2.5	59	*	79	GND	99	2.7
	20	1.9	40	GND	60	*	80	4.9	100	0.8
IC3202	1	2.6	7	0	13	0.8	19	NC	25	5.0
	2	4.9	8	2.8	14	2.7	20	NC	26	GND
	3	0.2	9	2.9	15	GND	21	4.5	27	5.0
	4	0.2	10	0	16	5.0	22	4.1	28	GND
1	5	0.2	11	3.1	17	GND	23	28		
	6	0	12	3.1	18	50	24	4.0		
IC3203	1	2.9	7	5.0	13	0	19	GND	25	5.0
1	2	0	8	2.3	14	2.7	20	ИС	26	GND
	3	5.0 0	9 10	2.0	15	GND	21	4.5	27	5.0
j	5	0	11	1.9 ,0.7	16 17	5.0 GND	22	4.1 2.8	28	GND
	6	5.0	12	2.9	18	5.0	23 24	3.8		
IC3204	1	50	6	3,2	11	GND	16	2.4	21	36
	2	4.7	7	2.6	12	0.2	17	50	22	2.9
	3	3.7	8	2.5	13	0.2	18	29	23	GND
I	4	3.3	9	28	14	4 9	19	GND	24	1.8
	5	3.4	10	2.5	15	2.7	20	36	25	0
1C3204	26	GND	31	٥	20	50		20		20
103204		2.5				50		2.0		2.9
		0		3.4 3.3		1.5 2.8		1.5 GND		3.7 4.7
		0		3.7		1.5		2.8	48	4.7
		2.5		4.7		2.9		2.7		
							40			

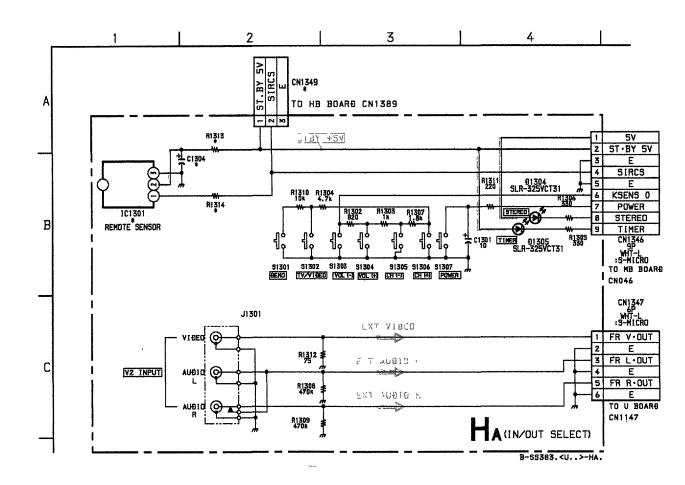
• P BOARD WAVEFO	RMS	
1	2	3
+[]+[]+	,F3,F3,	+[]+[]+
1.3 Vp-p (H)	0.9 Vp-p (H)	0.5 Vp-p (H)
4	(5)	6
+[]+[]+	+[[+[]+	_F1_F1_
0.5 Vp-р (Н)	0.6 Vp-p (H)	0.9 Vp-р (Н)
7	8	9
'ter'ter	151-151-151-151-151-151-151-151-151-151	
0.9 Vp-p (H)	0.9 Vp-p (H)	3.5 Vp-р (Н)
10	(1)	12
www	+ + + + +	+[]+[]+[]+
14.32 MHz	0.6 Vp-p (H)	0.6 Vp-р (Н)
13	14	15
, <del>12</del> ,12	ALA.	<b></b>
0.8 Vp-p (H)	0.8 Vp-p (H)	
16	17	18
4.5 Vp-p (H)	5.0 Vp-p (V)	5.0 Vp-p (V)
19	20	21)
	47,47	-party faith
3.5 Vp-p (H)	0.9 Vp-p (H)	1.7 Vp-p (H)

# P BOARD TRANSISTOR VOLTAGE LIST

	ε	С	В	
Q3201	26	GND	1.9	
Q3202	3.8	9.0	4.4	
Q3203	9.0	1.6	8.6	
Q3204	9.0	26	8.5	
Q3206	1.3	8 5	1.9	
Q3207	3.3	GND	2.6	
Q3208	0.9	8.5	1.5	
Q3209	2.3	GND	1.6	
Q3210	3.2	GND	2.6	

**-** 68 -

**- 65 -**



## HA BOARD \* MARK

Ref. No.	KP-46V35 (U/C)	KP-53V35 (US)	KP-61V35 (US)
C1304	400	-	10 50V
CN1349	0	0	-
IC1301	_		SBX1780-51
R1313 R1314	<u>-</u>	-	JW (5.0) 100

# HA BOARD IC VOLTAGE LIST

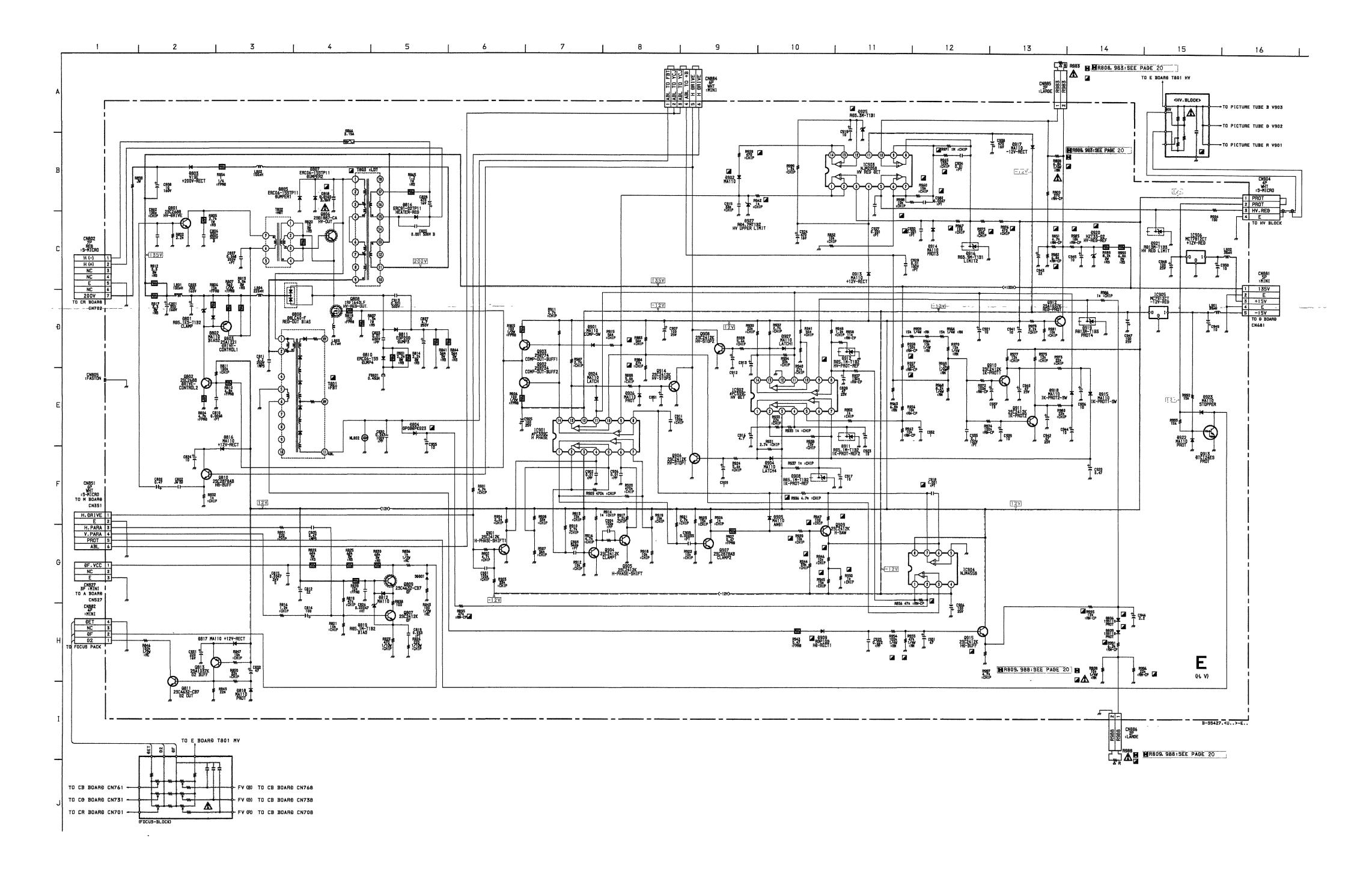
IC1301	1	5.1	2 !	5.1	3	GND			
<u></u>	L		ALL	VC	LTAGES	ARE	IN	٧	

○ : TO BE MOUNT─ : NOT MOUNT

BOAF	RD IC	VOLT	AGE	LIST			ALL	VOLTA	GES .	ARE IN V
IC901	1	-6.3	4	3.9	7	4.8	10	4.0	13	-11.6
1	2	6.3	5	7.7	8	2.5	11	0	14	2.0
	3	1 2.0	6	7.7	9	2.8	12	-12.0		
IC902	1	0.2	4	5 2	7	0	10	4.0	13	0.2
1	2	0	5	4.8	8	6.2	11	0	14	0
	3	12.0	6	5.2	9	50	12	GND		
IC903	1	3.9	4	11.6	7	76	10	7.6	13	11.2
I	2	3.9	5	7.6	8	3.9	11	-11.1	14	11.2
	3	3.9	6	7.6	9	7.6	12	0.4		
IC904	1	8.9	3	89	5	GND	7	2.2		
	2	8.9	4	-12.0	6	0.2	8	12.0		
(C905	1	-120	2	-150	3	GND				
IC906	1	120	2	150	3	GND				

# E BOARD TRANSISTOR VOLTAGE LIST

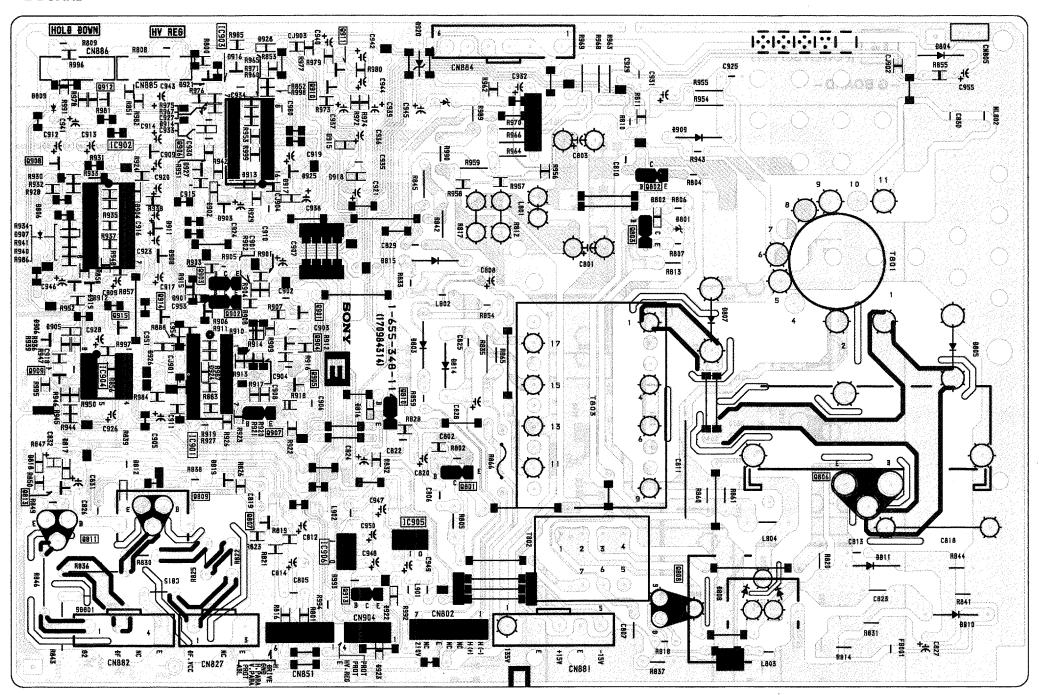
E BOA	RD TRANSI	STOR VOLT	AGE LIST
	E	С	В
Q801	GND	106.7	-0.3
Q802	2.1	131.7	2.5
Q803	132.3	106.8	1317
Q806	519	135.6	51.9
Q807	2 7	11.6	3 3
Q809	119	354.D	123
Q810	2.1	11.7	2.6
Q811	GND	6420	0
Q813	12.3	0	12.3
Q901	GND	3.9	03
Q902	1.9	-12.0	2.0
Q903	1.9	12.0	2.0
Q904	GND	06	0.6
Q905	GND	7.7	0.3
Q906	GND	2.6	0.2
Q907	GND	06	0.5
Q908	GND	26	0.2
Q909	02	2.2	-2.1
Q910	GND	0	0.7
Q911	GND	0	0.7
Q912	107	GND	101
Q913	GND	3.4	-03
Q914	GND	26	-0.6
Q915	0	120	0
	S	D	C
Q808	0	51.9	1.9



\_71 -



#### - E BOARD -

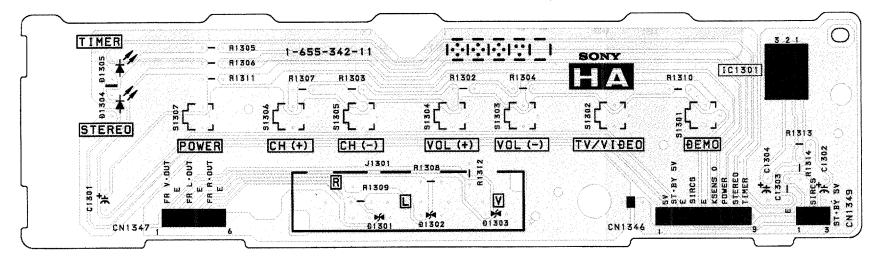


# 02

#### NOTE:

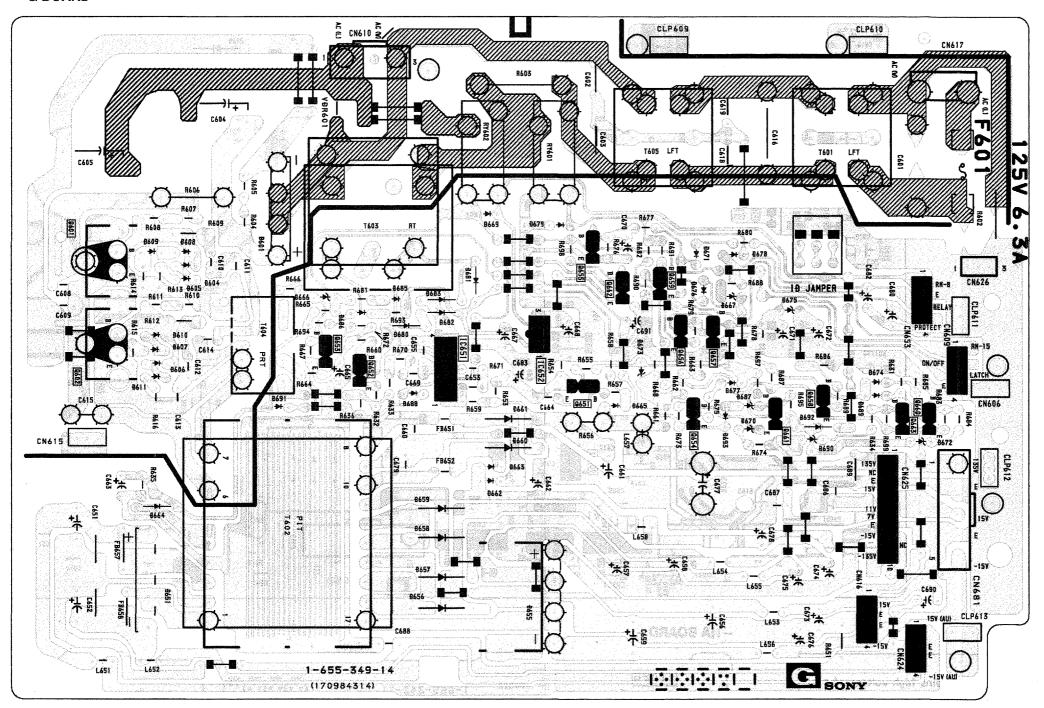
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

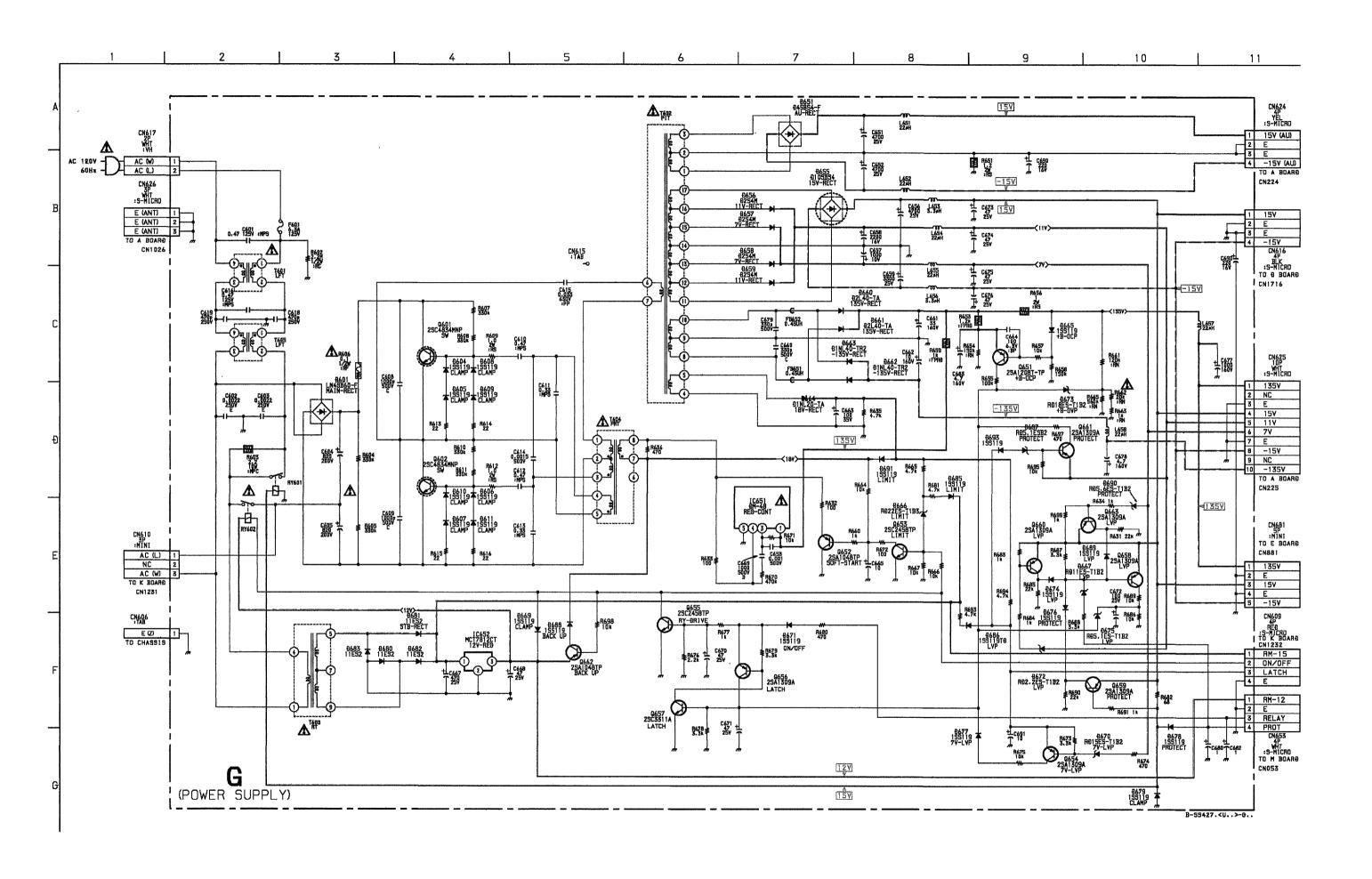
#### - HA BOARD -





# - G BOARD -





THE VOLTAGE VALUES FOR Q602 AND Q603 ARE MEASURED TAKING Q602 EMITTER AS THE REFERENCE.

# G BOARD IC VOLTAGE LIST

ALL VOLTAGES ARE IN V

IC651	1 1354	3 26	4 89	5 GND	
IC652	1 22.0	2 GND	3 120		

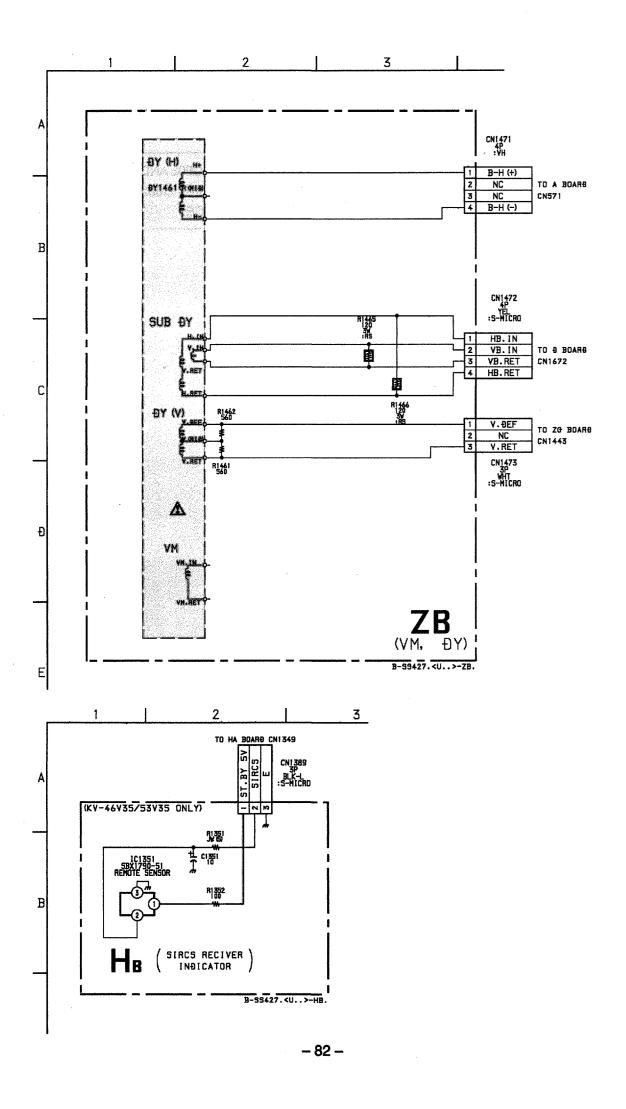
#### **G BOARD TRANSISTOR VOLTAGE LIST**

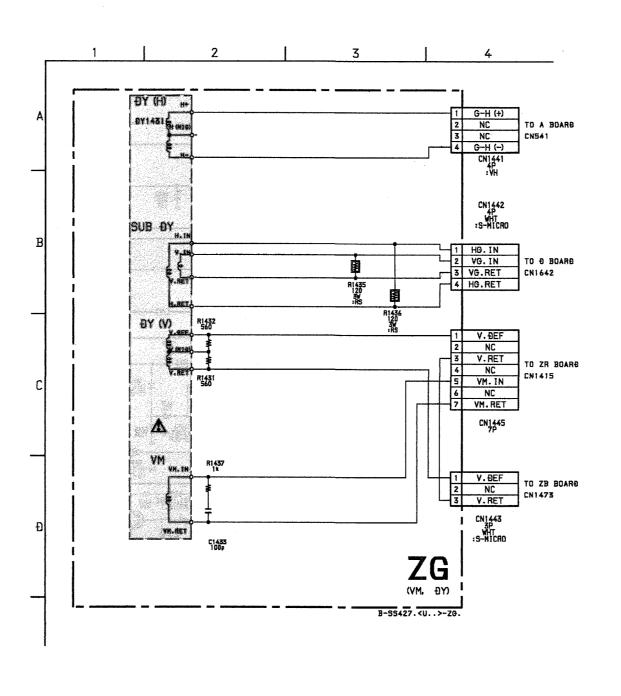
	Е	C	В
Q601	GND	115	115
Q602	GND	115	115
Q651	135.5	0.2	135.4
Q652	13.0	GND	15.1
Q653	GND	15.1	0
Q654	15.7	-2.0	15.7
Q655	GND	0.2	0.8
Q656	2.7	0.2	2.7
Q657	GND	2.7	0.2
Q658	15.0	8.2	14.8
Q659	15.0	15.3	14.6
Q660	15.0	15.3	14:6
Q661	11.0	0.2	11.5
Q662	12.0	12.1	11.4
Q663	15.0	15.3	14.6
Q003	15.0	13.3	14.0

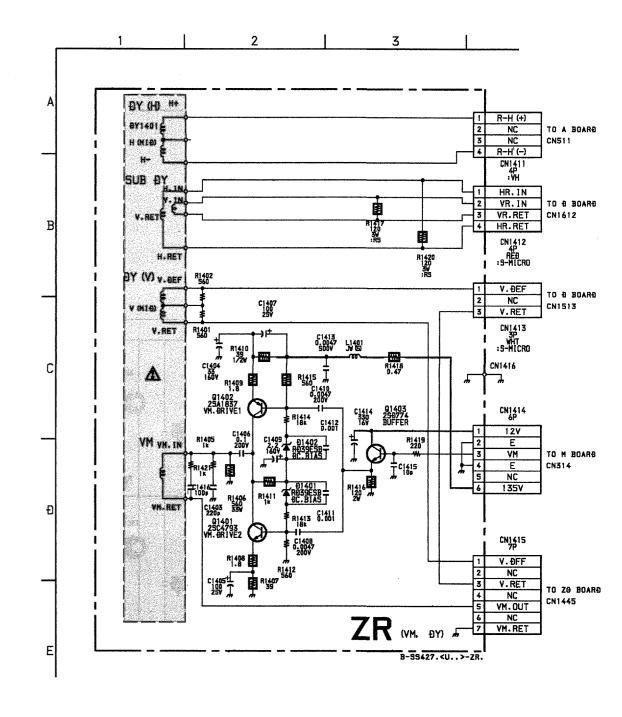
Schematic diagram ← G board

**- 81 -**

Schematic diagrams HB, ZB, ZG, ZR boards →







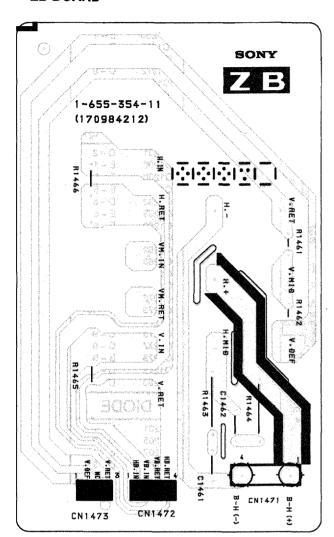
#### ZR BOARD TRANSISTOR VOLTAGE LIST

	ε	С	8
Q1401	0	-0.5	0
Q1402	-1.0	-0.5	-0.9
Q1403	4.8	12.0	5.4

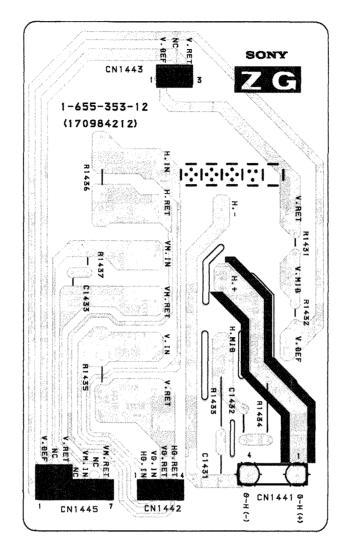
ALL VOLTAGES ARE IN  ${\bf V}$ 

ZB [VM, DY] ZG [VM, DY] ZR [VM, DY] HB [SIRCS RECEIVER,]

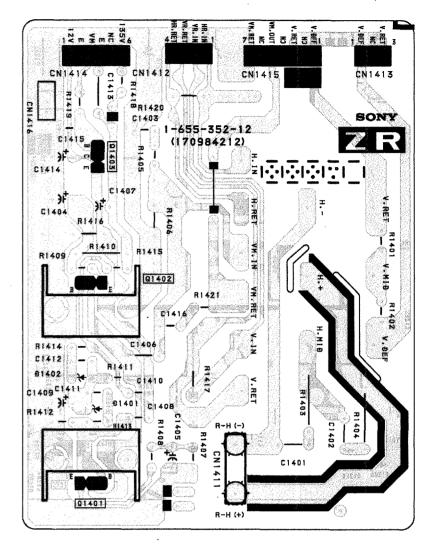
#### - ZB BOARD -



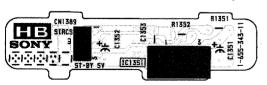
#### - ZG BOARD -

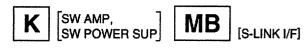


#### - ZR BOARD -

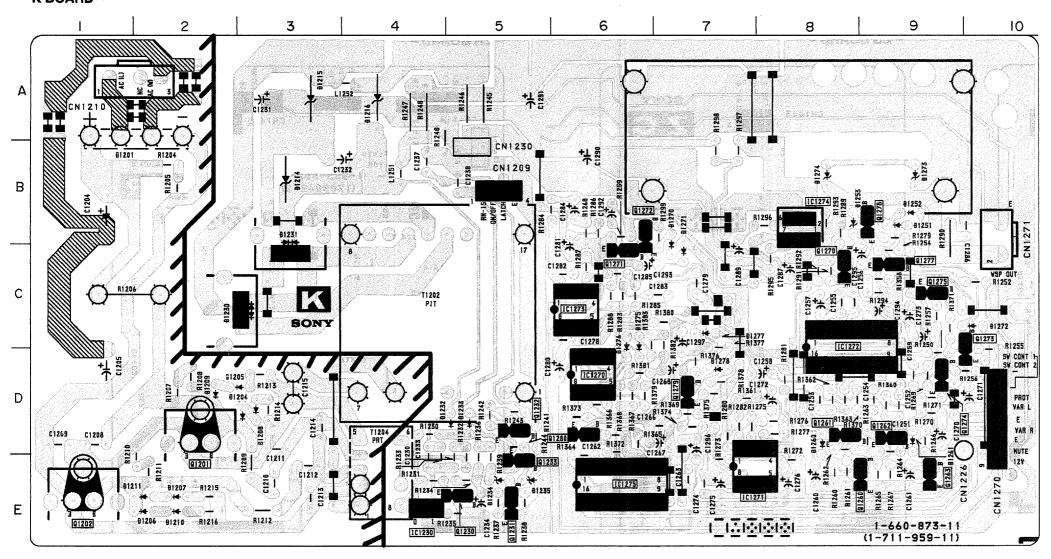


#### - HB BOARD - (KP-46V25/53V25 only)

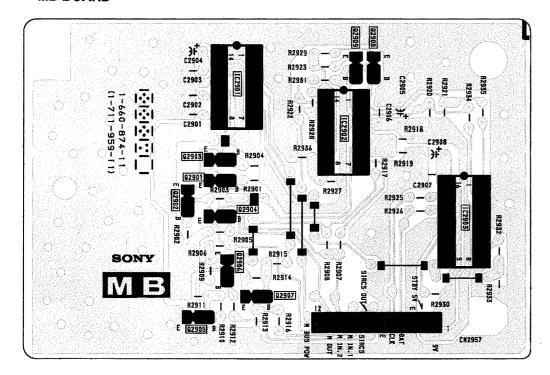




#### - K BOARD -

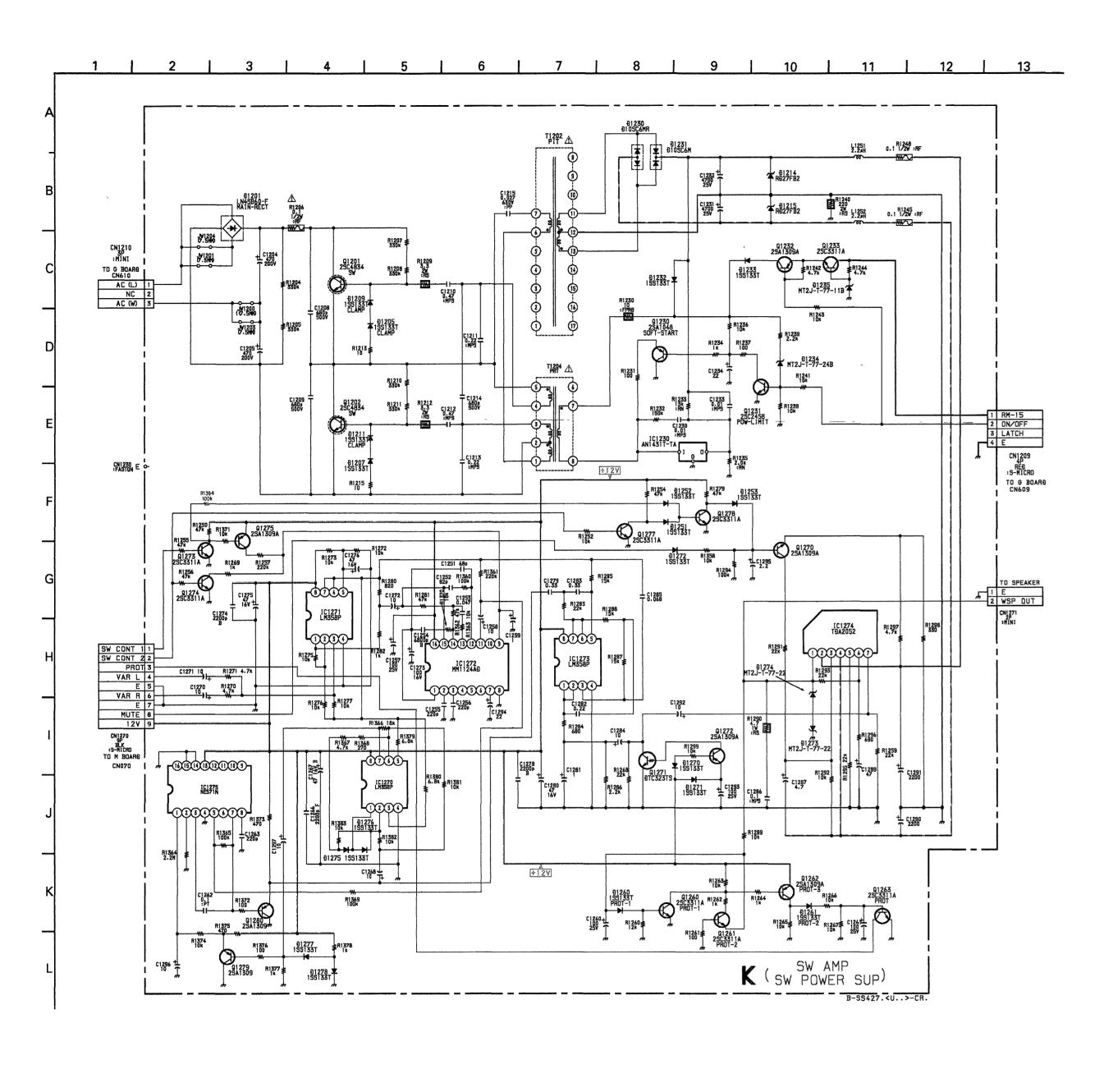


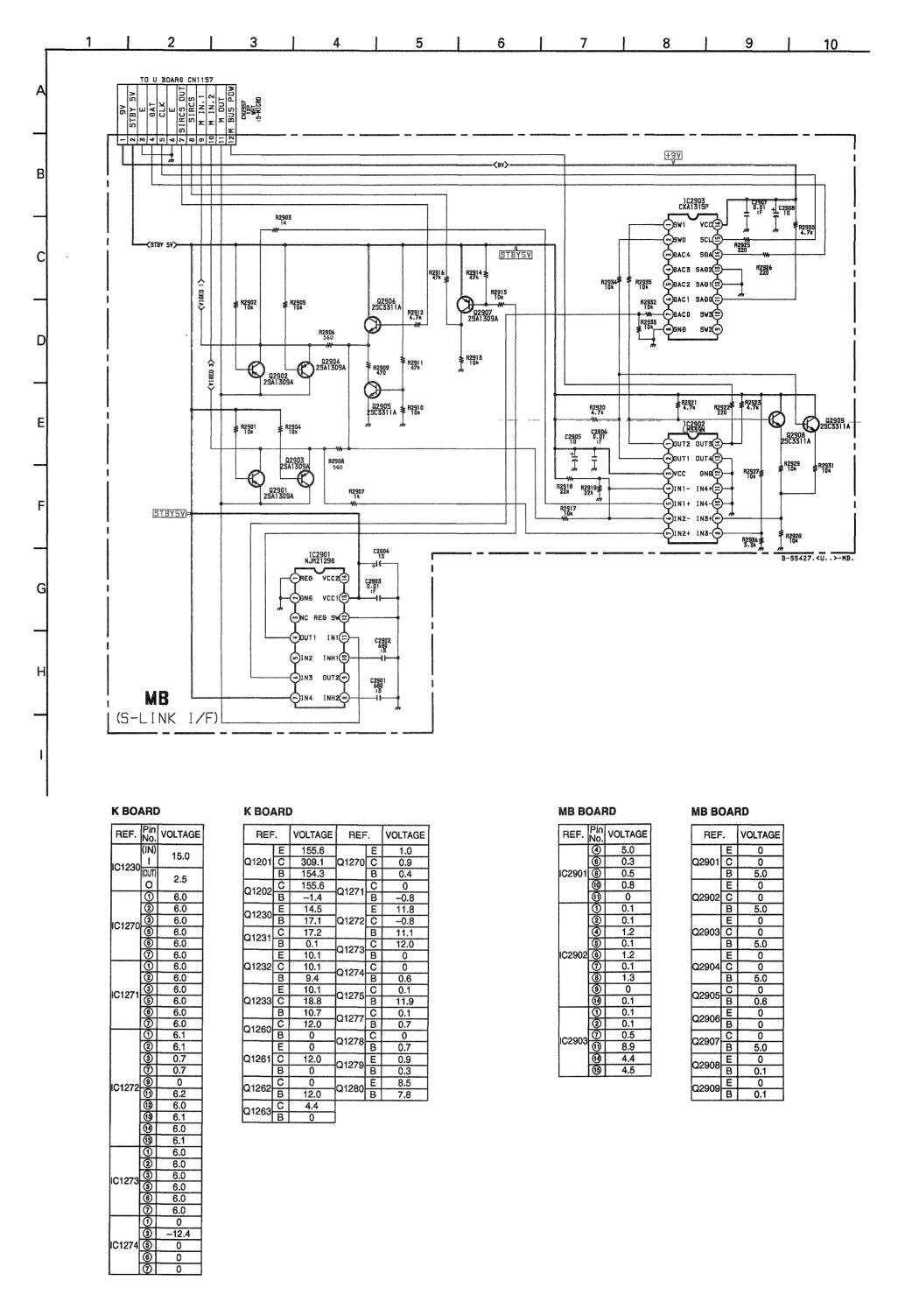
# - MB BOARD -



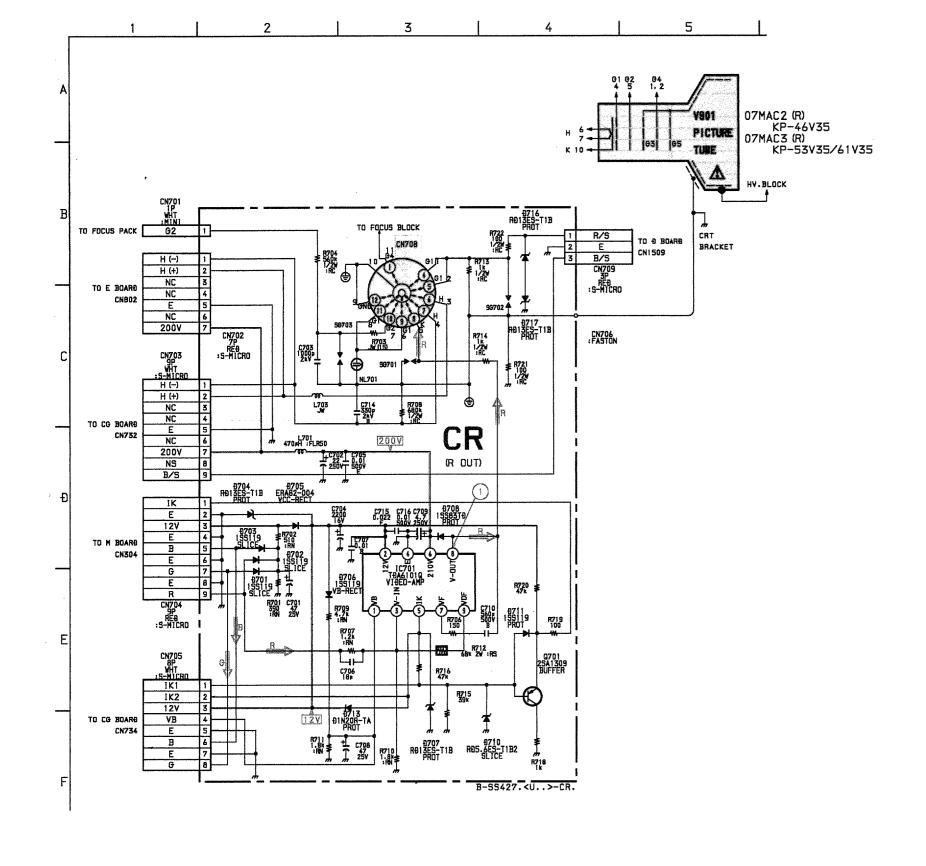
#### K BOARD

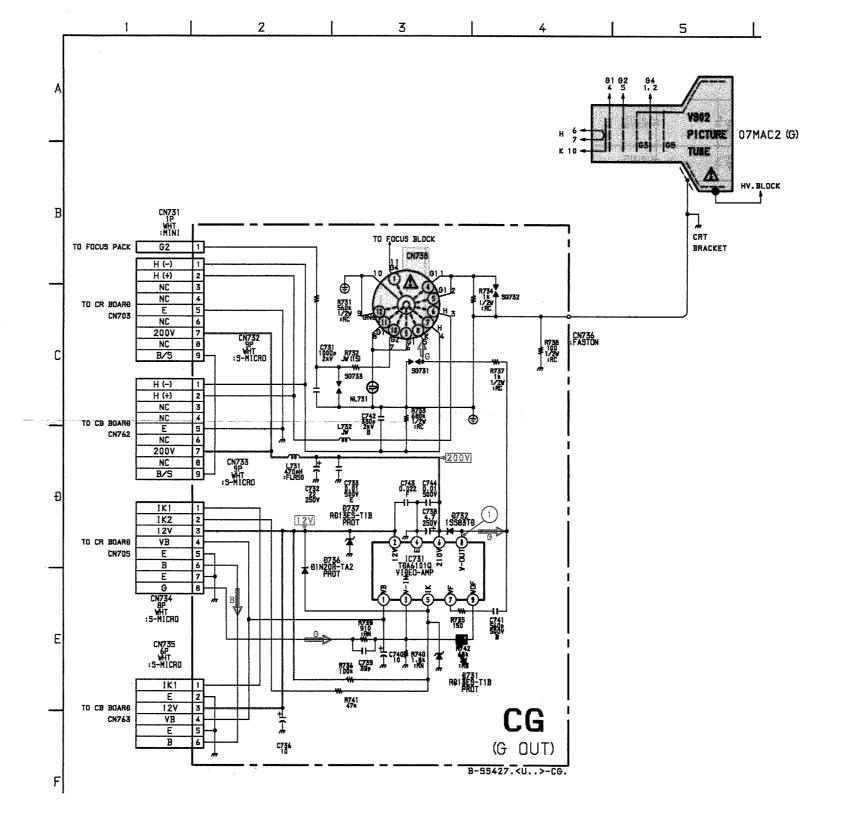
	С
IC1230 IC1270 IC1271 IC1272 IC1273 IC1274 IC1275	E - 4 D - 6 E - 7 C - 8 C - 6 B - 8 E - 6
TRAN	SISTOR
Q1201 Q1202 Q1230 Q1231 Q1232 Q1233 Q1260 Q1261 Q1262 Q1263 Q1270 Q1271 Q1272 Q1273 Q1274 Q1275 Q1277 Q1278 Q1279 Q1280	D = 1
DI	ODE
D1201 D1205 D1207 D1209 D1211 D1214 D1215 D1230 D1231 D1232 D1233 D1234 D1235 D1251 D1252 D1253 D1260 D1261 D1270 D1271 D1272 D1273 D1274 D1275 D1276 D1277 D1278	B - 1 - 2 - 2 - 2 - 3 - 3 - 2 - 3 - 5 - 5 - 5 - 9 - 9 - 8 - 8 - 9 - 7 - 7 - 1 - 9 - 8 - 6 - 6 - 7 - 7

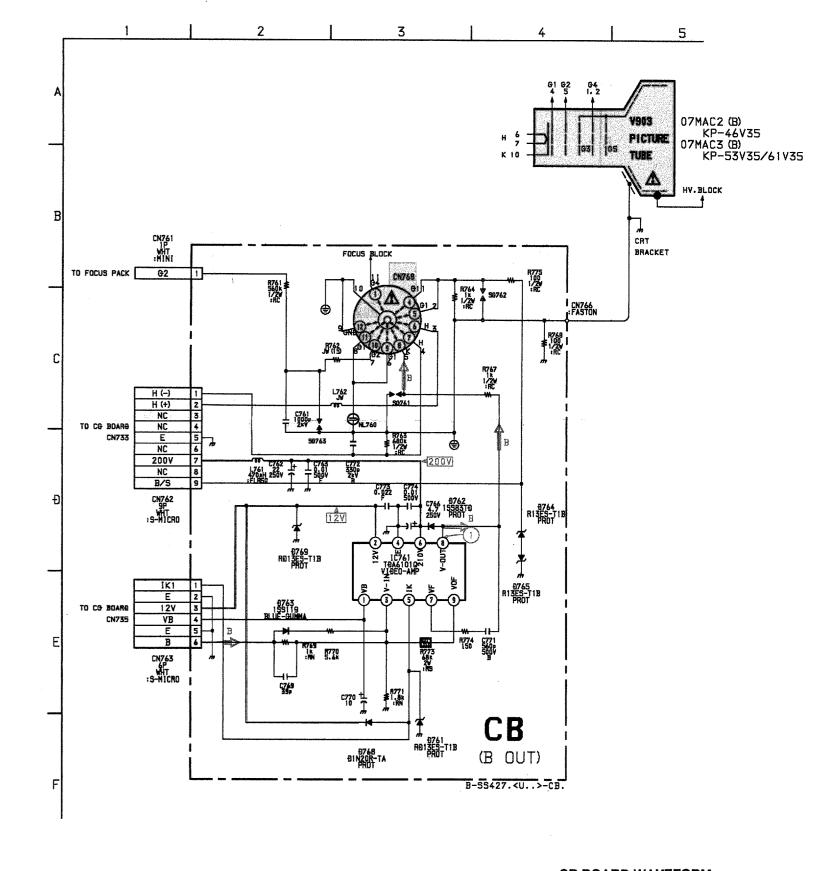




-89--90--92-



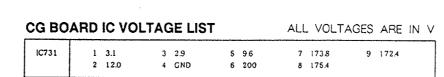


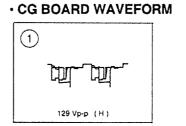






CR BO	ARD	IC VC	DLT	A(	GE LIS	T		ALL VOLTA	GES	ARE IN
IC701	ı	3.2		3	3.0	5	8.2	7: 171.5	9	170.1
1	2	12.0		4	GND	6	200	8 171.6		
1	2	12.0		4	GNU		200	8 1710		
20.00		TOAN			0 W0		<b>~</b> = 1.	ICT.		
CR BO	ARD	TRAN	ISIS	T	or vo	LTA	GE LI	IST		

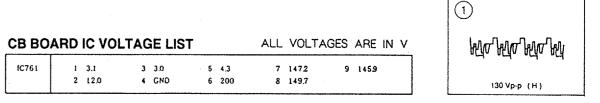




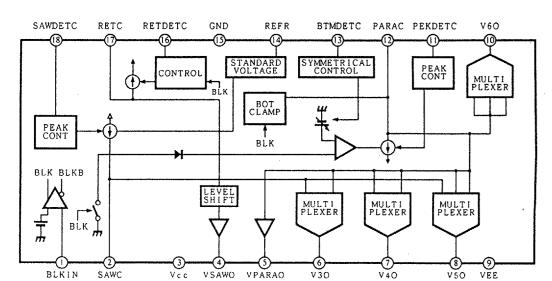
<del>-</del> 95 -



**- 96 -**



#### CR BOARD IC701 TDA6101Q



**-** 93 -

Schematic diagrams

(MB) boards

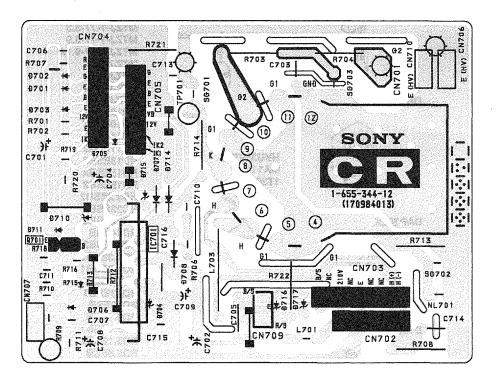
Schematic diagrams

CR, CG, CB boards ⇒

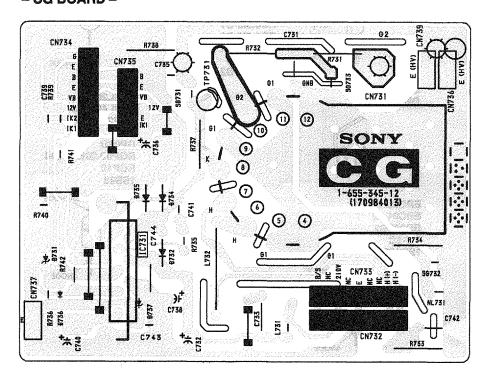
**-** 94 **-**



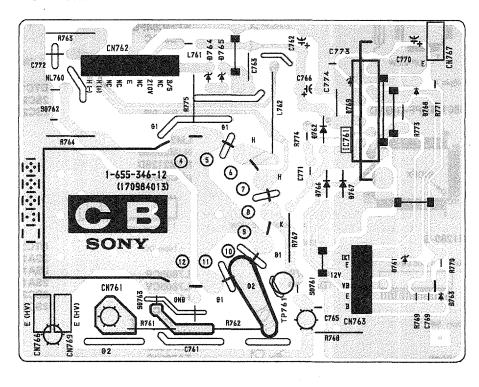
## - CR BOARD -



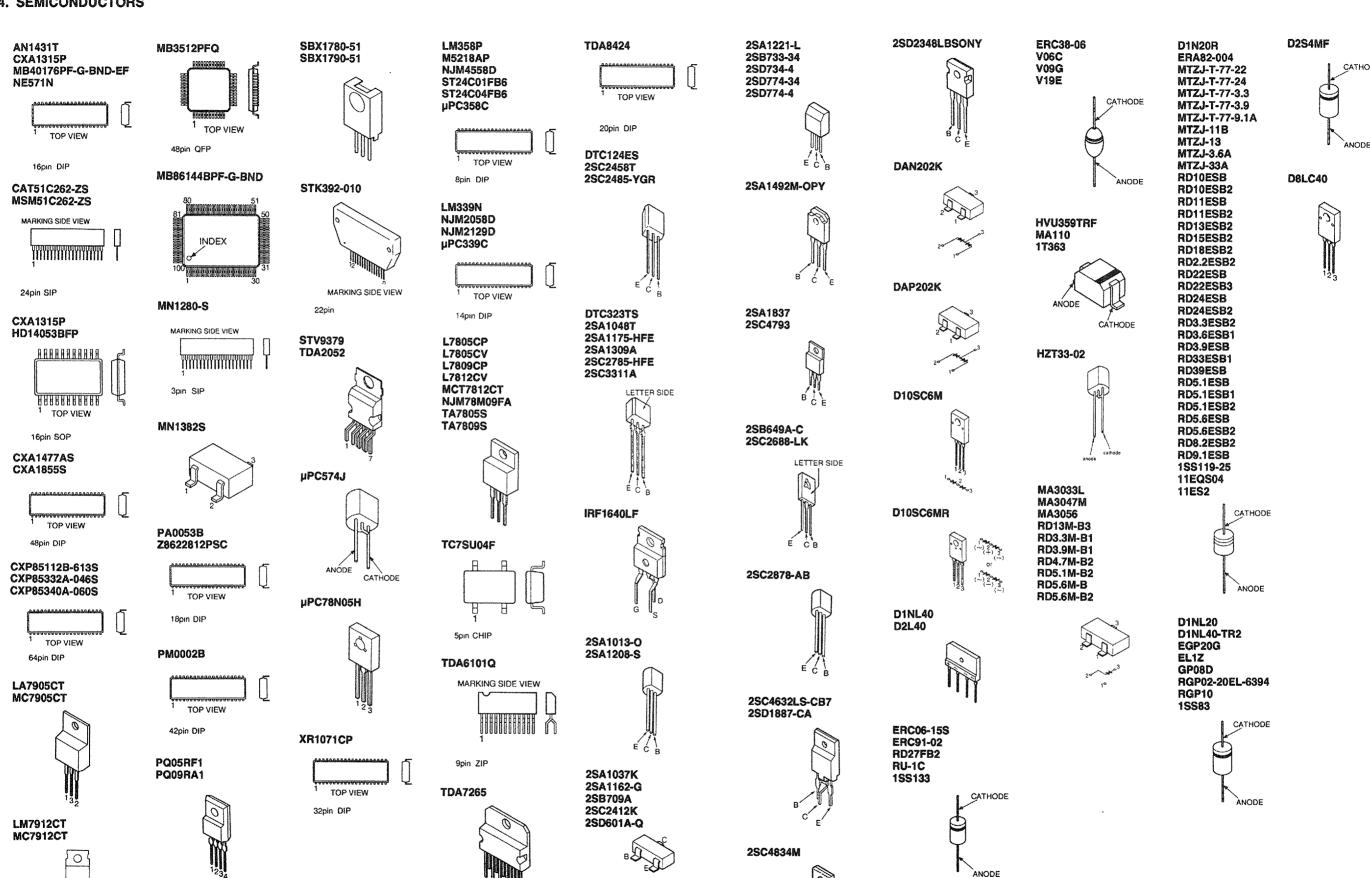
#### - CG BOARD -



#### - CB BOARD -



#### 4-4. SEMICONDUCTORS



# SECTION 5 EXPLODED VIEWS

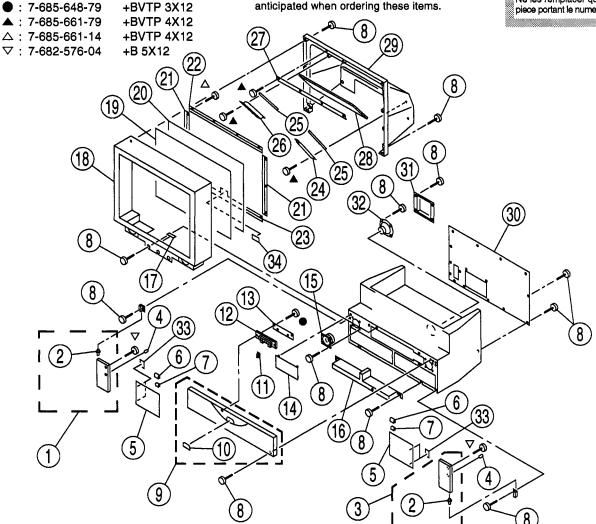
#### NOTE:

 Items with no part number and no description are not stocked because they are seldom required for routine service.  The construction parts of an assembled part are indicated with a collation number in the remark column. shading and mark A are critical for safety. Replace only with part number specified.

The componants identified by

5-1. COVER (KP-46V35/53V35)

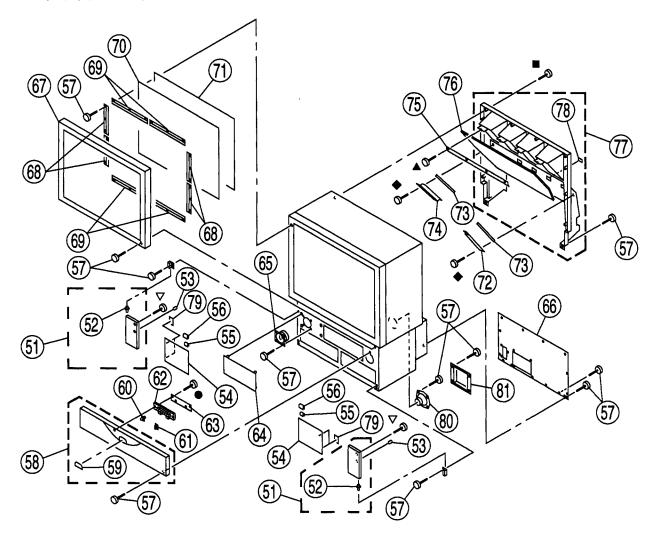
 Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Les composants identifies par une trame et une marque Â sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO	). PART NO.	DESCRIPTION	REMARK
1		DOOR (L) ASSY, RACK	2	20	4-036-469-01		
2	4-048-634-01	SHAFT	_		4-048-205-11	PLATE (F), DUFFUSION (KP-46V3	
3		DOOR (R) ASSY, RACK	2	21	* 4-048-152-01	HOLDER (S), SCREEN (KP-46V35)	
4	4-036-901-01	SCREW			* 4-048-152-11	HOLDER (S), SCREEN (KP-53V35)	
5	4-048-790-01	GLASS (53), DOOR					
				22	<b>*</b> 4-048-159-01		
6	4-038-384-01	CATCHER, MAGNET			* 4-048-159-11	HOLDER (L), SCREEN (KP-53V35)	
7	4-038-385-01	SPACER		23	* 4-048-159-21	HOLDER (L), SCREEN (KP-46V35)	)
8	4-041-164-11	SCREW (4X20), TAPPING			* 4-048-159-31	HOLDER (L), SCREEN (KP-53V35)	)
9	X-4032-613-1	PANEL ASSY, CONTROL	10	24	* 4-049-096-01	HOLDER (RIGHT), SIDE	
10	4-048-000-01	DOOR, CONTROL					
				25	* 4-049-098-01	CUSHION	
11	4-047-998-01	GUIDE, LIGHT, LED		26	* 4-049-097-01	HOLDER (LEFT), SIDE	
12	4-048-001-01	BUTTON, MULTI		27	* 4-037-351-01	HOLDER, MIRROR	
	* A-1372-112-A	HA BOARD, COMPLETE		28	* 4-048-741-01	MIRROR, REFLECTION	
14	4-048-335-01	GRILLE, SPEAKER		29	* 4-048-639-01	COVER, MIRROR (KP-46V35)	
15	1-505-378-11	SPEAKER (10CM)				, , , , , , , , , , , , , , , , , , , ,	
		(,			* 4-048-640-01	COVER, MIRROR (KP-53V35)	
16	4-048-247-01	PANEL, FRONT ORNAMENT		30	* 4-048-793-01	PLATE (53), REAR (KP-53V35)	
		HB BOARD, COMPLETE			* 4-048-794-01	PLATE (46), REAR (KP-46V35)	
18		BEZNET ASSY (46V) (KP-46V35)		31	* 4-054-051-01		
	X-4032-999-1			32	1-505-377-11	SPEAKER (13CM)	
19	4-036-466-01	PLATE (L), DIFFUSION (KP-53V35	6)	33	4-039-009-02	CUSHION, GLASS	
			,			,	
	4-037-360-11	PLATE (L), DIFFUSION (KP-46V35	5)	34	3-551-305-21	CUSHION, PANEL	
		(=/, o o o o (					

# 5-2. COVER (KP-61V35)

●: 7-685-648-79
 ■: 7-685-663-79
 ★BVTP 4X16
 ★BVTP 4X12
 ★BVTP 4X12
 ★BVTP 4X30
 ★BVTP 4X30



REF. NO	PART NO.	DESCRIPTION	REMARK	REF. NO	PART NO.	DESCRIPTION	REMARK
51	X-4033-663-1	DOOR ASSY, RACK	52	67	X-4032-762-1	FRAME ASSY, SCREEN	
52	4-048-634-01	SHAFT	-		* 4-040-122-01	HOLDER (S), SCREEN	
53	4-036-901-01	SCREW					
53 54	4-048-791-01	GLASS (61), DOOR		70	4-040-124-11		
55	4-038-385-01	SPACER				(-),	
				71	4-040-123-11	PLATE (F), DIFFUSION	
56	4-038-384-01	CATCHER, MAGNET		72	* 4-049-096-01	HOLDER (RIGHT), SIDE	
57	4-041-164-11	SCREW (4X20), TAPPING		73	* 4-049-098-01	CUSHION 7	
58	X-4032-612-1	PANEL ASSY, CONTROL	59	74	* 4-049-097-01	HOLDER (LEFT), SIDE	
59	4-048-000-01	DOOR, CONTROL		75	* 4-037-351-01	HOLDER, MIRRÓR	
60	4-047-999-01	FILTER, REMOTE				·	
		·		76	4-050-128-01	MIRROR (61)	
61	4-047-998-01	GUIDE, LIGHT, LED		77	X-4033-048-1	COVER ASSY, MIRROR	78
62	4-048-001-01	BUTTON, MULTI		78	4-048-150-01	CAP, HOLE	
63	* A-1372-099-A	HA BOARD, COMPLETE		79	4-039-009-02	CUSHION, GLASS	
64	4-048-335-01	GRILLE, SPEAKER		80	1-505-377-11	SPEAKER (13CM)	
65	1-504-785-11	SPEAKER (10CM)		81	* 4-054-051-01	COVER, SPEAKER	
66	* 4-049-034-01	BOARD, REAR					

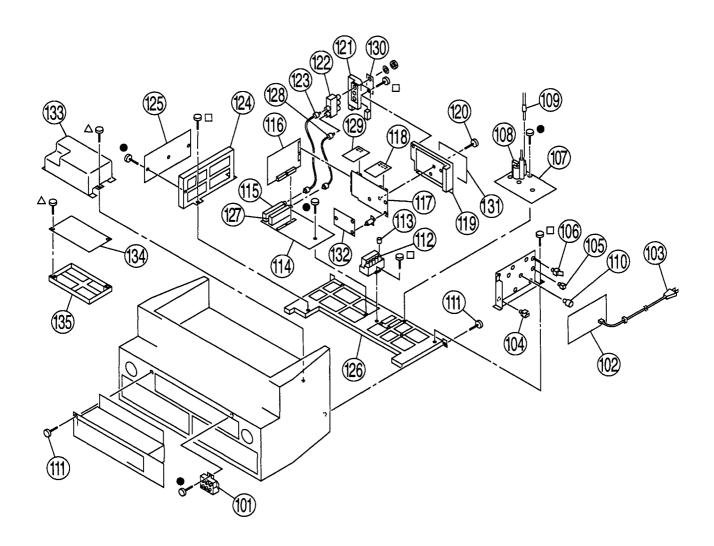
The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number

specified.

Les composants identifies par une trame et une marque  $ilde{\Lambda}$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

#### 5-3. CHASSIS

**•** : 7-685-648-79 +BVTP 3X12 ☐ : **7-685-663-71** +BVTP 4X16 △: 7-685-661-14 +BVTP 4X12



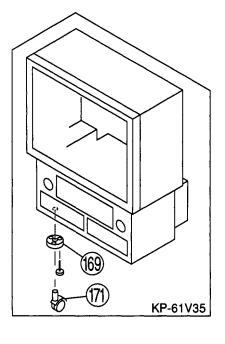
REF. N	<u>0.</u>	PART NO.	DESCRIPTION	REMARK	REF. NO	PART NO.	DESCRIPTION	REMARK
102	* A	-1316-257-A	RESISTOR ASSY (HIGH-VOLTAG G BOARD, COMPLETE CORD, POWER(WITH NOISE FIL		118 119		P BOARD, COMPLETE TERMINAL BOARD (A)	
				(7.0A/125V)	120		SCREW (3X12), TAPPING, +BV	
104 105			HOLDER, PC BOARD HOLDER, PCB		121 122	4-047-952-11 1-417-178-11	TERMINAL BOARD (B) SELECTOR, ANTENNA (AS-2)	
					123	1-556-945-21	CABLE, P-P	
106 107			HOLDER, PCB E BOARD, COMPLETE		124	* 4-047-950-01	BRACKET, D PC BOARD	
108	<b>A</b> 1∙	453-189-11	TRANSFORMER ASSY, FLYBACI	C X-2631//A4S)			D BOARD, COMPLETE BRACKET, MAIN PC BOARD	
			LEAD ASSY, HV	2021	127	Δ 8-598-047-11	TUNER, BTF-LA401	
110	* 3-	687-542-41	SPACER, PC BOARD SPACE		128 129	* 1-557-056-41 8-741-797-01	FILTER, DIGITAL COM SBX1797	7-01
111 112			SCREW (4X20), TAPPING BLOCK ASSY, HIGH-VOLTAGE		130	A_0A7_037_01	LABEL (B), TERMINAL	
113	4-	373-137-01	CAP (Z), RUBBER		131	4-054-050-01	LABEL (A), TERMINAL	
114			A BOARD, COMPLETE (KP-46V3: A BOARD, COMPLETE (KP-61V3:			* A-1304-087-A * 4-053-180-01	MB BOARD, COMPLETE BRACKET, K	
115	4 0	eno nea nn	TUNER, BTF-WA402			* A-1380-523-A * 4-053-181-01	K BOARD, COMPLETE HOLDER, PCB	
116	* A	-1306-527-A	M BOARD, COMPLETE		133	- 4-055-101-01	HOLDER, I CD	
117	* A	-1373-559-A	U BOARD, COMPLETE		l			

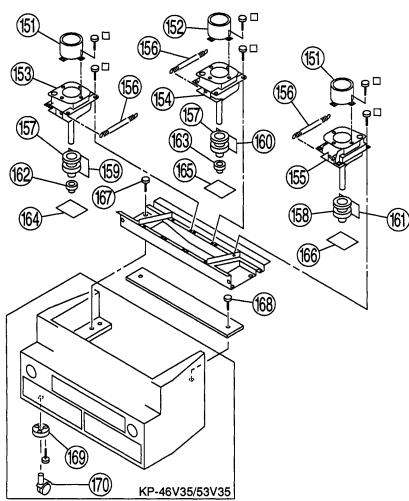
The componants identified by shading and mark  $extstyle \Delta$  are critical for safety.

Replace only with part number specified. Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

#### 5-4. PICTURE TUBE

☐ : 7-685-663-71 +BVTP 4X16





REF. NO	D. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
151		LENS (LINNIT) (KP-46V35				ZG BOARD, COMPLETE	
152	4-040-131-01 4-034-057-11	LENS (LINNIT POINT 6) (I LENS (LINNIT) (KP-46V35	/53V35)	161 '	* A-1390-491-A	ZB BOARD, COMPLETE	
153		LENS (LINNIT POINT 6) (I PICTURE TUBE 07MAC20			. 1-452-790-21 . 1-452-790-11		
		•	***************************************	164	* A-1331-498-A	CR BOARD, COMPLETE	
		PICTURE TUBE 07MAC30 PICTURE TUBE 07MAC20				CG BOARD, COMPLETE CB BOARD, COMPLETE	
		PICTURE TUBE 07MAC20		100	* A-1331-300-A	CB BOARD, COMPLETE	
		PICTURE TUBE 07MAC3()	8) (KP-53V35/61V35)		4-052-894-01	SCREW (4X20), HEAD TA	
156	4-048-142-01	SPRING, TENSION		168	4-378-522-11	SCREW, TAPPING, HEXA	AGON HEAD
			****	169	4-030-850-01	SOCKET, CASTER	15)
157		DEFLECTION YOKE Y829		170		CASTER (KP-46V35/53V3	(5)
158 159		DEFLECTION YOKE Y829 ZR BOARD, COMPLETE	FAZNZ (D)	171	4-040-508-01	CASTER (KP-61V35)	

# SECTION 6 ELECTRICAL PARTS LIST



#### NOTE:

Les composants identifies par une trame et une marque  $\hat{\Lambda}$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $\hat{\mathbb{L}}$  are critical for safety.
Replace only with part number specified.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• CAPACITORS

- CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

When indicating parts by reference number,

please include the board name.

#### RESISTORS

- · All resistors are in ohms
- F: nonflammable

		• F : no	onflammat	ole						
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	* A-1195-062-A	P BOARD, CON				C3252	1-163-103-00	CERAMIC CHIP 27PF	5%	50 <b>V</b>
		<capacitor></capacitor>		-0~		C3253 C3254 C3255 C3256 C3257	1-163-141-00 1-163-101-00 1-164-232-11	CERAMIC CHIP 22PF CERAMIC CHIP 0.001MF CERAMIC CHIP 22PF CERAMIC CHIP 0.01MF CERAMIC CHIP 100PF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V
C3201 C3203 C3204 C3205 C3206	1-126-964-11 1-126-964-11 1-126-964-11	CERAMIC CHIP ELECT ELECT ELECT	10MF 10MF 10MF	20% 10% 20% 20% 20%	16V 25V 50V 50V 50V	C3258 C3259 C3260 C3261 C3263	1-163-111-00 1-163-119-00 1-163-141-00	CERAMIC CHIP 68PF CERAMIC CHIP 56PF CERAMIC CHIP 120PF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3207 C3208 C3209 C3210 C3212	1-163-117-00 1-163-117-00 1-126-962-11 1-126-967-11 1-126-962-11	ELECT	100PF 100PF 3.3MF 47MF 3.3MF	5% 5% 20% 20% 20%	50V 50V 50V 16V 50V	C3264 C3265 C3266 C3267 C3268	1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3213 C3214 C3215 C3216 C3217	1-164-346-11 1-164-346-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF 1MF 0.47MF		16V 16V 16V 25V 16V	C3269 C3270 C3271 C3272 C3273	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF	5% 5%	50V 50V 50V 50V 50V
C3218 C3219 C3220 C3221 C3222	1-126-935-11 1-164-346-11 1-164-346-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	470MF 1MF 1MF	20%	16V 16V 16V 16V 25V	C3274 C3275 C3276 C3277 C3278	1-163-101-00 1-163-111-00 1-163-101-00	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
C3223 C3224 C3225 C3226 C3227	1-164-222-11 1-164-222-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.22MF 0.47MF		25V 25V 25V 25V 16V	C3279 C3280 C3282	1-126-964-11	CERAMIC CHIP 0.001MF ELECT 10MF CERAMIC CHIP 1MF	5% 20%	50V 50V 16V
C3228 C3229		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V			<connector></connector>		
C3230 C3231	1-163-141-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	0.001MF 220PF	5% 5%	50V 50V	CN150	1-573-297-21	CONNECTOR, BOARD TO	BOAI	RD 18P
C3232		CERAMIC CHIP		5%	50V			<diode></diode>		
C3233 C3234 C3235 C3236 C3237	1-164-232-11 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.01MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	D3202 D3203 D3208 D3209	8-719-404-46 8-719-110-17	DIODE HVU359TRF DIODE MA110 DIODE RD10ESB2 DIODE RD10ESB2		
C3238 C3239 C3240 C3241 C3242	1-163-141-00 1-163-101-00 1-163-103-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 22PF 27PF	5% 5% 5% 5% 10%	50V 50V 50V 50V 50V	IC3200 IC3201		<ic> IC MSM51C262-ZS IC MB86144BPF-G-BND</ic>		
C3243 C3244 C3245 C3246	1-163-117-00 1-163-113-00 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 68PF 0.01MF	5% 5% 10% 10%	50V 50V 50V 50V	IC3202 IC3203 IC3204 IC3205	8-759-093-28 8-759-093-28 8-759-093-25	IC MB40176PF-G-BND-EF IC MB40176PF-G-BND-EF IC MB3512PFQ IC TC7SU04F		
C3247		CERAMIC CHIP			50V			GOT .		
C3248 C3249 C3250 C3251	1-163-117-00 1-163-113-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 68PF	5% 5% 5% 10%	50V 50V 50V 50V	L3201 L3202		<coil> INDUCTOR 10UH INDUCTOR 180UH</coil>		

# **SECTION 6 ELECTRICAL PARTS LIST**



#### NOTE:

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une ... piece portant le numero specifie.

The componants identified by shading and mark A are critical for safety.
Replace only with part number

specified.

- The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

please include the board name.

• CAPACITORS PF: μμ F

· There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

When indicating parts by reference number,

#### RESISTORS

- · All resistors are in ohms
- F : nonflammable

		• F : n	onflammab	ie							
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	* A-1195-062-	A PBOARD, CO!	MPLETE			C3252	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C2201	1 124 047 11	<capacitor></capacitor>		209	101	C3253 C3254 C3255 C3256 C3257	1-163-141-00 1-163-101-00 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 22PF 0.01MF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V
C3201 C3203 C3204 C3205 C3206	1-126-967-11 1-164-004-11 1-126-964-11 1-126-964-11 1-126-964-11	CERAMIC CHIP ELECT ELECT	47MF 0.1MF 10MF 10MF 10MF	20% 10% 20% 20% 20%	16V 25V 50V 50V 50V	C3258 C3259 C3260 C3261 C3263	1-163-111-00 1-163-119-00 1-163-141-00	CERAMIC CHIP CERAM	56PF 120PF 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3207 C3208 C3209 C3210 C3212		ELECT		5% 5% 20% 20% 20%	50V 50V 50V 16V 50V	C3264 C3265 C3266 C3267 C3268	1-165-319-11 1-163-141-00 1-163-141-00 1-163-141-00	CERAMIC CHIP (	0.1MF 0.001MF 0.001MF 0.001MF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3213 C3214 C3215 C3216 C3217	1-164-346-11 1-164-346-11 1-164-005-11 1-164-346-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	1MF 1MF 0.47MF 1MF		16V 16V 16V 25V 16V	C3269 C3270 C3271 C3272 C3273	1-165-319-11 1-165-319-11 1-165-319-11	CERAMIC CHIP (CERAMIC CHIP (CE	0.1MF 0.1MF 0.1MF	5% 5%	50V 50V 50V 50V 50V
C3218 C3219 C3220 C3221 C3222	1-126-935-11 1-164-346-11 1-164-346-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	470MF 1MF 1MF	20%	16V 16V 16V 16V 25V	C3274 C3275 C3276 C3277 C3278	1-163-101-00 1-163-111-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 56PF 22PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C3223 C3224 C3225 C3226 C3227	1-164-222-11 1-164-222-11 1-164-005-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.22MF 0.22MF 0.47MF		25V 25V 25V 25V 16V	C3279 C3280 C3282	1-126-964-11	CERAMIC CHIP CERAMIC CHIP	10MF	5% 20%	50V 50V 16V
C3228 C3229 C3230 C3231 C3232	1-163-093-00 1-163-141-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10PF 0.001MF 220PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	CN150	1-573-297-21	<connector></connector>	OARD TO	BOAR	D 18P
C3233 C3234 C3235 C3236 C3237	1-164-232-11 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.01MF 0.01MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V	D3202 D3203 D3208 D3209	8-719-404-46 8-719-110-17	<pre><diode> DIODE HVU359T DIODE MA110 DIODE RD10ESB DIODE RD10ESB</diode></pre>	2		
C3238 C3239 C3240 C3241 C3242	1-163-141-00 1-163-101-00 1-163-103-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 22PF 27PF	5% 5% 5% 5% 10%	50V 50V 50V 50V 50V	IC3200 IC3201 IC3202	8-759-093-29	<ic> IC MSM51C262-Z IC MB86144BPF-G IC MB40176PF-G-</ic>	G-BND		
C3243 C3244 C3245 C3246 C3247	1-163-113-00 1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	68PF 0.01MF 0.01MF	5% 5% 10% 10%	50V 50V 50V 50V 50V	IC3203 IC3204 IC3205	8-759-093-28 8-759-093-25	IC MB40176PF-G- IC MB3512PFQ IC TC7SU04F			
C3248 C3249 C3250 C3251	1-163-117-00 1-163-113-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 68PF	5% 5% 5% 10%	50V 50V 50V 50V	L3201 L3202		<coil> INDUCTOR 10UE INDUCTOR 180U</coil>			



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C243 C244 C245	1-137-399-11 1-104-665-11 1-137-399-11	ELECT	0.1MF 100MF 0.1MF	5% 20% 5%	50V 25V 50V	CN222 CN223 CN224 CN225	*1-564-507-11 *1-564-507-11	CONNECTOR, BOARD TO BOAR PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 10P	RD 20P
C249 C262 C263 C264 C265	1-137-399-11 1-104-664-11 1-104-665-11 1-104-665-11 1-104-665-11	ELECT ELECT ELECT	0.1MF 47MF 100MF 100MF 100MF	5% 20% 20% 20% 20%	50V 25V 25V 25V 25V	CN511 CN527 CN528 CN541	*1-580-689-11 *1-573-963-11 1-695-915-11 *1-580-689-11	PIN, CONNECTOR (PC BOARD) PIN, CONNECTOR (PC BOARD) TAB (CONTACT) PIN, CONNECTOR (PC BOARD)	3P 4P
C266 C267 C270 C271 C272	1-104-665-11 1-104-664-11 1-102-978-00 1-102-123-00 1-102-074-00	ELECT CERAMIC CERAMIC	100MF 47MF 220PF 0.0033MF 0.001MF	20% 20% 5% 10% 10%	25V 25V 50V 50V 50V	CN571 CN1026		PIN, CONNECTOR (PC BOARD) PLUG, CONNECTOR 3P <diode></diode>	4P
C273 C274 C275 C276 C277	1-126-962-11 1-126-964-11 1-124-902-00 1-102-125-00 1-126-963-11	ELECT ELECT CERAMIC	3.3MF 10MF 0.47MF 0.0047MF 4.7MF	20% 20% 20% 10% 20%	50V 50V 50V 50V 50V	D201 D202 D220 D221 D230	8-719-110-17 8-719-991-33 8-719-991-33	DIODE RD10ESB2 DIODE RD10ESB2 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77	
C278 C279 C280 C281 C282	1-124-925-11 1-126-963-11 1-126-963-11 1-102-123-00 1-102-125-00	ELECT ELECT CERAMIC	2.2MF 4.7MF 4.7MF 0.0033MF 0.0047MF		50V 50V 50V 50V 50V	D231 D232 D233 D234 D235	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77	
C283 C284 C285 C286 C287	1-126-963-11 1-124-925-11 1-126-963-11 1-126-963-11 1-102-074-00	ELECT ELECT ELECT	4.7MF 2.2MF 4.7MF 4.7MF 0.001MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 50V	D262 D263 D264 D301 D302	8-719-991-33 8-719-991-33 8-719-924-11	DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE 1SS133T-77 DIODE MTZJ-T-77-22 DIODE MTZJ-T-77-22	
C288 C289 C290 C291 C292	1-104-665-11 1-124-903-11 1-102-978-00 1-124-902-00 1-104-664-11	ELECT CERAMIC ELECT	100MF 1MF 220PF 0.47MF 47MF	20% 20% 5% 20% 20%	25V 50V 50V 50V 25V	D303 D304 D501 D502 D504	8-719-924-11 8-719-991-33 8-719-983-14	DIODE MTZJ-T-77-22 DIODE MTZJ-T-77-22 DIODE 1SS133T-77 DIODE MTZJ-T-77-3.9 DIODE 1SS133T-77	
C501 C502 C503 C504 C505	1-124-902-00 1-104-664-11 1-137-370-11 1-102-973-00 1-137-372-11	ELECT FILM CERAMIC	0.47MF 47MF 0.01MF 100PF 0.022MF	20% 20% 5% 5% 5%	50V 25V 50V 50V 50V	D505 D506 D507 D509 D510	8-719-300-80 8-719-018-82 8-719-900-95	DIODE 1SS133T-77 DIODE RU-1C DIODE RGP02-20EL-6394 DIODE V09G (KP-46V35/53V35) DIODE V09G (KP-46V35/53V35)	
C506 C507 C508 C509 C510	1-123-024-21 1-107-368-11 1-107-638-11 1-107-368-11 1-102-030-00	FILM ELECT FILM	33MF 0.047MF 33MF 0.047MF 330PF	10% 20% 10% 10%	160V 200V 160V 200V 500V	D511 D1001 D1002	8-719-982-24	DIODE 1SS133T-77 DIODE MTZJ-33A DIODE MTZJ-33A	
C511 C512 C513 C514 C515	1-137-414-11 1-162-115-00 1-136-598-11 1-136-613-11 1-162-114-00	CERAMIC FILM FILM	0.0047MF 330PF 3MF 0.0068MF 0.0047MF	10% 5%	100V 2KV 200V 2KV 2KV	IC201 IC202 IC230 IC262 IC263	8-759-135-80 8-759-090-21 8-759-190-89 8-759-054-12 8-759-504-46	IC TDA8424 IC TDA7265 IC PQ09RA1	
C516 C517 C518 C519 C1001	1-107-719-11 1-126-971-11 1-126-971-11 1-124-903-11 1-126-963-11	ELECT ELECT ELECT	220MF 470MF 470MF 1MF 4.7MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	IC264 IC270 IC271 IC1001	8-759-279-76 8-759-253-06 8-752-057-18	IC MCT7812CT IC XR1071CP IC CXA1315P IC HD14053BFP	
C1002 C1003 C1004 C1005 C1006	1-126-964-11 1-126-965-11 1-126-952-11 1-104-665-11 1-101-004-00	ELECT ELECT ELECT	10MF 22MF 1000MF 100MF 0.01MF	20% 20% 20% 20%	50V 50V 16V 25V 50V	L501 L503	1-406-832-11	<coil> COIL, CHOKE 15mH COIL,HORIZONTAL LINEARITY</coil>	Y(HLC)
C1007 C1008 C1009 C1010	1-126-935-11 1-101-004-00 1-126-964-11 1-126-964-11	CERAMIC ELECT ELECT	470MF 0.01MF 10MF 10MF	20% 20% 20%	16V 50V 50V 50V	L1001 L1002 L1003	1-408-408-00 1-408-421-00 1-408-408-00	INDUCTOR 8.2UH INDUCTOR 8.2UH INDUCTOR 100UH INDUCTOR 8.2UH	
C1011 C1012	1-102-121-00 1-102-121-00		0.0022MF 0.0022MF		50V 50V	L1006 L1007		INDUCTOR 8.2UH INDUCTOR 8.2UH	
		<connector:< td=""><td>&gt;</td><td></td><td></td><td></td><td></td><td><transistor></transistor></td><td></td></connector:<>	>					<transistor></transistor>	
CN221	1-573-298-21	CONNECTOR, I		BOAR	RD 20P	Q220 Q221		TRANSISTOR DTC323TS TRANSISTOR 2SA1175-HFE	



REF. NO.	PART NO.	DESCRIPTION		1	REMARK	REF. NO.	PART NO.	DESCRIPTION		R	EMARK	
Q222 Q223 Q230	8-729-119-76	TRANSISTOR D TRANSISTOR 2 TRANSISTOR 2	SA1175-HFE			R252 R253	1-249-417-11 1-249-417-11	CARBON	1 <b>K</b> 1 <b>K</b>	5% 5%	1/4W 1/4W	
Q231 Q232 Q233 Q234 Q235	8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HFE SC2785-HFE SC2785-HFE			R254 R255 R256 R257 R258	1-249-417-11 1-249-429-11 1-249-436-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	1 K 10K 39K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q236 Q237 Q238 Q270 Q271	8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HFE SC2785-HFE SA1175-HFE			R259 R260 R270 R271 R272		CARBON		5% 5% 1% 5% 5%		F F
Q501 Q502 Q503 Q504 Q505	8-729-119-76 8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HFE SC2785-HFE SC2785-HFE			R273 R274 R276 R277 R279	1-249-429-11 1-249-441-11 1-249-425-11 1-249-429-11 1-249-441-11	CARBON CARBON CARBON	10K 100K 4.7K 10K 100K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q506 Q507 Q508 Q509 Q510	8-729-304-92 8-729-201-32 8-729-010-98	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SB649A-C SA1013-O SA1492M-OF			R280 R281 R282 R283 R501	1-249-417-11 1-249-429-11 1-215-440-00 1-249-429-11 1-249-421-11	CARBON METAL CARBON	1K 10K 6.2K 10K 2.2K	5% 5% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q511 Q1001 Q1002 Q1003 Q1004	8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HFE SA1175-HFE SA1175-HFE			R502 R503 R504 R505 R506	1-249-429-11 1-249-441-11 1-249-429-11 1-215-437-00 1-215-433-00	CARBON CARBON METAL	10K 100K 10K 4.7K 3.3K	5% 5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
	0 125 115 70	<resistor></resistor>	002703 III E			R507 R508 R509 R510	1-249-407-11 1-249-421-11 1-249-423-11 1-249-417-11	CARBON CARBON	150 2.2K 3.3K 1K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
R207 R208 R209 R210 R211	1-249-431-11 1-249-429-11 1-249-431-11 1-247-815-91 1-249-429-11	CARBON CARBON CARBON	10K 15K 220	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R511 R512 R513 R514	1-215-900-11 1-249-421-11	METAL OXIDE METAL OXIDE CARBON	470K 22K 22K 2.2K	5% 5% 5% 5%	2W 1/4W	F F F
R212 R213 R214 R215 R216	1-249-441-11 1-249-441-11 1-247-815-91 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	100K 220 100K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R515 R516 R517 R518 R519	1-249-430-11 1-249-429-11 1-249-427-11 1-249-417-11	CARBON CARBON	12K 10K 6.8K 1K	5% 5% 5% 5% 5%	1/4W 1/4W	F F
R217 R218 R219 R220 R221	1-247-807-31 1-247-807-31 1-249-417-11 1-249-429-11 1-249-437-11	CARBON CARBON CARBON	100 1K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R520 R521 R522 R523 R524	1-249-423-11 1-249-437-11 1-249-417-11 1-249-426-11	CARBON	3.3K 47K 1K 5.6K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W	F F F F
R222 R223 R224 R230	1-249-417-11 1-249-429-11 1-249-429-11 1-249-427-11	CARBON CARBON CARBON	1K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	R525 R526 R528	1-216-373-11 1-216-478-11	METAL OXIDE METAL OXIDE METAL OXIDE	2.2 390	5% 5% 5%	2W 3W	F F
R231 R233	1-249-429-11	CARBON	10K	5% 5%	1/4W 1/4W	R529 R530		METAL OXIDE		5%	3W /35/53V3	ŕ
R234 R235 R236	1-249-441-11 1-249-414-11 1-249-432-11	CARBON CARBON	100K 560	5% 5% 5%	1/4W 1/4W 1/4W	R531		METAL OXIDE		(KP-46V 5%	/35/53V3	35) F
R237	1-249-414-11	CARBON	560	5%	1/4W	R532	1-215-442-00		7.5K	1%	1/4W	,,,
R238 R239 R241 R242 R243	1-249-431-11 1-249-427-11 1-249-439-11 1-249-432-11 1-247-863-91	CARBON CARBON CARBON	6.8K 68K 18K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R533 R534 R1001 R1002 R1003		METAL METAL OXIDE METAL OXIDE		1% 1% 5% 5% 5%		F F
R244 R245 R246 R247 R248	1-247-863-91 1-249-437-11 1-247-863-91 1-249-430-11 1-249-437-11	CARBON CARBON CARBON	47K 22K 12K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	R1004 R1005 R1006 R1007 R1009	1-249-434-11 1-249-436-11 1-249-434-11 1-249-425-11 1-247-807-31	CARBON CARBON CARBON	27K 39K 27K 4.7K 100	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R249 R250 R251	1-247-807-31 1-249-417-11 1-249-437-11	CARBON CARBON	1K .	5% 5% 5%	1/4W 1/4W 1/4W	R1010 R1011 R1012	1-249-411-11 1-249-425-11 1-249-425-11	CARBON	330 4.7K 4.7K	5% 5% 5%	1/4W 1/4W 1/4W	

The componants identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ∆ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



		P P.									
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1013 R1014 R1016	1-247-807-31 1-249-436-11 1-247-807-31	CARBON	100 39 <b>K</b> 100	5% 5% 5%	1/4W 1/4W 1/4W	R2907 R2908 R2909 R2910	1-249-417-11 1-249-414-11 1-249-413-11 1-249-429-11	CARBON CARBON	1K 560 470 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
R1017 R1018 R1019	1-249-417-11 1-215-432-00 1-249-441-11	CARBON METAL	1K 3K 100K	5% 1% 5%	1/4W 1/4W 1/4W	R2911 R2912 R2913 R2914	1-249-437-11 1-249-425-11 1-249-429-11 1-249-437-11	CARBON CARBON CARBON	47K 4.7K 10K 47K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
		<relay></relay>				R2915	1-249-429-11	CARBON	10 <b>K</b>	5%	1/4W
RY230 RY231	1-755-028-11 1-755-028-11		ER>			R2916 R2917 R2918 R2919 R2920	1-249-437-11 1-249-429-11 1-247-863-91 1-247-863-91 1-249-425-11	CARBON CARBON CARBON	47K 10K 22K 22K 4.7K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
T501	<u> </u>	TRANSFORME	R, HORIZO	NTAL	DRIVE	R2921	1-249-425-11		4.7K	5%	1/4W
		<tuner></tuner>				R2922 R2923 R2925 R2926	1-247-815-91 1-249-425-11 1-247-815-91 1-247-815-91	CARBON CARBON	220 4.7K 220 220	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
TU1002	<u>A</u> 8-598-254-00	TUNER BTF-LA TUNER BTF-W	A402	*****	*****	R2927 R2928 R2929 R2930 R2931	1-249-429-11 1-249-429-11 1-249-429-11 1-249-425-11 1-249-429-11	CARBON CARBON CARBON	10K 10K 10K 4.7K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
	* A-1304-087-A	MB BOARD, C				R2932 R2933 R2934 R2935 R2936	1-249-429-11 1-249-429-11 1-249-429-11 1-249-429-11 1-249-423-11	CARBON CARBON CARBON	10K 10K 10K 10K 10K 3.3K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
		<capacitor></capacitor>				R2330	1-2-7	CARBON	3.3K	370	1/4***
C2901 C2902 C2903 C2904 C2905	1-102-116-00 1-102-116-00 1-101-004-00 1-126-964-11 1-126-964-11	CERAMIC CERAMIC ELECT	680PF 680PF 0.01MF 10MF 10MF	10% 10% 20% 20%	50V 50V 50V 50V 50V		,	**************************************	MPLETE	*****	*****
C2906 C2907 C2908	1-101-004-00 1-101-004-00 1-126-964-11	CERAMIC	0.01MF 0.01MF 10MF	20%	50V 50V 50V			<capacitor></capacitor>			
		CONNECTOR				C001	1-126-935-11		470MF	20%	16V
CN2957	* 1-564-515-11	PLUG, CONNEC				C002 C004 C005 C006	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	20% 10% 10% 10%	6.3V 50V 50V 50V
		<ic></ic>				C007 C009	1-163-001-11	CERAMIC CHIP CERAMIC CHIP	220PF	10% 10%	50V 50V
IC2901 IC2902 IC2903	8-759-984-03	IC NJM2129D IC LM339N IC CXA1315P				C010 C011 C012	1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF	10% 10% 10% 10%	50V 50V 50V
		<transistor:< td=""><td>&gt;</td><td></td><td></td><td>C013 C014</td><td>1-163-001-11</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>220PF</td><td>10% 10%</td><td>50V 50V</td></transistor:<>	>			C013 C014	1-163-001-11	CERAMIC CHIP CERAMIC CHIP	220PF	10% 10%	50V 50V
Q2901 Q2902 Q2903	8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HI	FE		C015 C016 C017	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	10% 10% 10%	50V 50V 50V
Q2904 Q2905	8-729-119-76	TRANSISTOR 2 TRANSISTOR 2	SA1175-HI	FE		C018 C019 C020	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	10% 10% 10%	50V 50V 50V
Q2906 Q2907 Q2908	8-729-119-76	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HI	FE		C020 C021 C022	1-163-001-11	CERAMIC CHIP CERAMIC CHIP	220PF	10% 10% 10%	50V 50V 50V
Q2909		TRANSISTOR 2 <resistor></resistor>				C023 C024 C025 C026	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V
R2901	1-249-429-11		10 <b>K</b>	5%	1/4W	C028	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
R2902 R2903 R2904 R2905	1-249-429-11 1-249-417-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	10K 1K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	C029 C030 C031 C032	1-163-001-11 1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	10% 10% 10% 10%	50V 50V 50V 50V
R2906	1-249-414-11	CARBON	560	5%	1/4W	C033	1-103-809-11	CERAMIC CHIP	U.U47MF	10%	25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C034 C035	1-163-001-11 1-124-903-11	CERAMIC CHIP ELECT	220PF 1MF	10% 20%	50V 50V	C355	1-126-965-11	ELECT	22MF	20%	50V
C037 C038 C040		CERAMIC CHIP ELECT		10% 20% 20%	50V 16V 50V	C357 C358 C359 C360		CERAMIC CHIP CERAMIC CHIP		20% 5% 5% 20%	25V 50V 50V 50V
C041 C042		CERAMIC CHIP CERAMIC CHIP		10% 10%	50V 50V	C361	1-126-964-11		10MF	20%	50V
C046 C047 C048	1-124-903-11	CERAMIC CHIP ELECT CERAMIC CHIP	1MF	5% 20% 5%	50V 50V 50V	C362 C363 C364 C365	1-163-009-11 1-126-964-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.001MF 10MF	5% 10% 20% 5%	50V 50V 50V 50V
C049 C050		CERAMIC CHIP CERAMIC CHIP		10%	50V 50V	C366		CERAMIC CHIP		5%	50V
C051 C054 C055	1-163-001-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF	10% 10% 10%	50V 50V 50V	C368 C369 C370 C371				0.5PF 10% 20% 20%	50V 25V 25V 25V
C056 C057		CERAMIC CHIP CERAMIC CHIP		10% 5%	50V 50V	CS/I	1 104-005-11	LLLCI	1001411	2070	25 4
C058 C060 C062	1-124-903-11		1MF	5% 20%	50V 50V	Croos	1 216 205 01	<chip conduc<="" td=""><td></td><td></td><td></td></chip>			
C062	1-105-058-91	CERAMIC CHIP ELECT	10MF	20%	25V 50V	CJ001 CJ002 CJ003	1-216-295-91	CONDUCTOR, C CONDUCTOR, C CONDUCTOR, C	CHIP		
C064 C065	1-126-964-11 1-163-038-91	ELECT CERAMIC CHIP	10MF 0.1MF	20%	50V 25V		1 210 270 71				
C066 C067	1-163-135-00 1-137-399-11	CERAMIC CHIP FILM	560PF 0.1MF	5% 5%	50V 50V	CNOAC	*1 564 510 11	<connector></connector>			
C068 C069	1-137-367-11 1-137-375-11		0.0033MF 0.068MF	5% 5%	50V 50V	CN046 CN052 CN053	*1-564-507-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 4P		
C070 C071	1-104-664-11 1-124-464-11	ELECT ELECT	47MF 0.22MF	20% 20%	25V 50V	CN054 CN070	1-573-979-21	CONNECTOR, B PLUG, CONNEC	OARD TO	BOARI	) 11P
C074 C075	1-126-935-11		470MF	20%	16V			PLUG, CONNEC			
C076 C302		CERAMIC CHIP CERAMIC CHIP ELECT		5% 20%	50V 50V 50V	CN314 CN321 CN322	1-573-301-21	PLUG, CONNEC CONNECTOR, B CONNECTOR, B	OARD TO		
C303 C304	1-124-902-00 1-126-963-11	ELECT	0.47MF 4.7MF	20% 20%	50V 50V	CN351		PLUG, CONNEC		DOTHL	201
C309 C310		CERAMIC CHIP CERAMIC CHIP			50V	CN355 CN356	*1-566-367-11	CONNECTOR (R	IINGE (RE		
C311 C312	1-124-925-11		2.2MF	20%	50V 50V 50V	CN357 CN358		PLUG, CONNEC PLUG, CONNEC			
C313	1-104-664-11	ELECT	47MF	20%	25V			<diode></diode>			
C314 C315 C316	1-126-934-11	CERAMIC CHIP ELECT TANTALUM	0.01MF 220MF 33MF	20%	50V 16V	D001		DIODE MA110			
C317 C318		CERAMIC CHIP		10% 20%	16V 50V 50V	D002 D003 D004	8-719-404-46	DIODE MA110 DIODE MA110 DIODE RD5.6ES	B2		
C319	1-124-903-11	ELECT	1MF	20%	50V	D005	8-719-109-89	DIODE RD5.6ES	В2		
C320 C321 C323		CERAMIC CHIP		20% 10%	50V 50V	D006 D007	8-719-109-89	DIODE RD5.6ES DIODE RD5.6ES			
C324	1-126-965-11	CERAMIC CHIP ELECT	22MF	20%	50V 50V	D008 D009 D010	8-719-404-46	DIODE 1T363 DIODE MA110 DIODE MA110			
C327 C328	1-163-251-11	CERAMIC CHIP CERAMIC CHIP	100PF	5% 5%	50V 50V	<b>D</b> 011	8-719-404-46	DIODE MA110			
C329 C338 C339	1-163-001-11 1-126-963-11 1-124-464-11		220PF 4.7MF 0.22MF	10% 20% 20%	50V 50V 50V	D012 D013 D014	8-719-404-46	DIODE MA110			
C340		CERAMIC CHIP		5%	50V	D014 D015	8-719-404-46	DIODE MA110 DIODE MA110			
C341 C342	1-163-001-11 1-163-001-11	CERAMIC CHIP CERAMIC CHIP	220PF 220PF	10% 10%	50V 50V	D016 D017	8-719-404-46	DIODE MA110 DIODE MA110			
C343 C344	1-163-001-11 1-163-031-11	CERAMIC CHIP CERAMIC CHIP	220 <b>PF</b> 0.01 <b>MF</b>	10%	50V 50V	D018 D019	8-719-404-46	DIODE MA110 DIODE BD5 6M	D2		
C345 C346		CERAMIC CHIP CERAMIC CHIP			50V 50V	D020 D305		DIODE RD5.6M- DIODE MTZJ-T-			
C347 C348	1-124-902-00 1-163-231-11	ELECT CERAMIC CHIP	0.47MF 15PF	20% 5%	50V 50V	D307 D308	8-719-923-60 8-719-110-22	DIODE MTZJ-T- DIODE RD11ESI	77-9.1A B2		
C349 C350	1-163-243-11 1-126-964-11	CERAMIC CHIP	47PF 10MF	5% 20%	50V 50V	D309 D310		DIODE RD5.1ES DIODE DAP2021			
C352 C353		CERAMIC CHIP		20%	50V 50V 25V	D311 D312		DIODE DAN2021 DIODE MA110	К		
C354		CERAMIC CHIP		5%	50V	D313		DIODE MA110			



								<u> </u>
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
D314 D315		DIODE MA110 DIODE RD5.6ESB2		Q318 Q319		TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		
D316 D317 D321 D322 D323	8-719-110-22 8-719-404-46 8-719-404-46	DIODE MA110 DIODE RD11ESB2 DIODE MA110 DIODE MA110 DIODE MA110	!	Q320 Q321 Q322	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		
D324		DIODE MA110				<resistor></resistor>		
D325 D326 D327 D328	8-719-110-08 8-719-404-46	DIODE MA110 DIODE RD8.2ESB2 DIODE MA110 DIODE 1SS133T-77		R001 R002 R003 R004 R005	1-216-049-91 1-216-033-00 1-216-033-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 220	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
		<ic></ic>		R006 R007		METAL GLAZE 220 METAL GLAZE 220	5%	1/10W
IC001 IC002 IC003 IC004 IC005	8-752-841-13 8-759-370-33 8-759-328-12	IC uPC78N05H IC CXP85340A-060S IC ST24C04FB6 IC Z8622812PSC IC ST24C01FB6		R008 R009 R010	1-216-033-00 1-216-033-00 1-216-073-00	METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
IC005		IC MN1280-S		R011 R012	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
IC301 IC302		IC CXA1477AS		R013 R014 R015	1-216-073-00	METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 220	5% 5% 5%	1/10W 1/10W 1/10W
		<coil></coil>		R016 R017		METAL GLAZE 220 METAL GLAZE 10K	5% 5%	1/10W 1/10W
L003		INDUCTOR 10UH		R018 R019	1-216-049-91	METAL GLAZE 1K METAL GLAZE 220	5% 5%	1/10W 1/10W
L004 L005	1-410-470-11	INDUCTOR 33UH INDUCTOR 10UH		R020	1-216-033-00	METAL GLAZE 220	5%	1/10 <b>W</b>
L006 L302	1-410-470-11 1-408-413-00	INDUCTOR 10UH INDUCTOR 22UH		R021 R022		METAL GLAZE 220 METAL GLAZE 100K	5% 5%	1/10W 1/10W
L303 L304		INDUCTOR 39UH INDUCTOR 6.8UH		R023 R024 R025	1-216-065-00	METAL GLAZE 1M METAL GLAZE 4.7K METAL GLAZE 10K	5% 5% 5%	1/10W 1/10W 1/10W
		<transistor></transistor>		R026 R027	1-216-089-91	METAL GLAZE 10K METAL GLAZE 47K	5% 5%	1/10W 1/10W
Q001 Q002	8-729-216-22 8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R028 R029 R030	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
Q003 Q004	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R031		METAL GLAZE 10K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
Q005	8-729-422-27	TRANSISTOR 2SD601A-Q		R032 R033	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
Q006 Q007		TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R034 R035	1-216-073-00	METAL GLAZE 10K METAL GLAZE 220	5% 5%	1/10W 1/10W
Q009 Q011	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R036		METAL GLAZE 100	5%	1/10W
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q		R037 R038	1-216-033-00	METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
Q013 Q014	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R039 R040	1-216-025-91	METAL GLAZE 100 METAL GLAZE 220	5% 5%	1/10W 1/10W
Q015 Q016		TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R041		METAL GLAZE 220	5%	1/10W
Q017	8-729-422-27	TRANSISTOR 2SD601A-Q		R042 R043		METAL GLAZE 220 METAL GLAZE 10K	5% 5%	1/10W 1/10W
Q018 Q019	8-729-422-27	TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R044 R045		METAL GLAZE 47K METAL GLAZE 220	5% 5%	1/10W 1/10W
Q301 Q302		TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R046	1-216-033-00	METAL GLAZE 220	5%	1/10W
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		R047 R048		METAL GLAZE 220 METAL GLAZE 10K	5% 5%	1/10W 1/10W
Q304 Q305		TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R049 R050		METAL GLAZE 220 METAL GLAZE 1K	5% 5%	1/10W 1/10W
Q307 Q308	8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		R051	1-216-049-91	METAL GLAZE 1K	5%	1/10W
Q309		TRANSISTOR 2SA1162-G		R052 R054	1-216-073-00	METAL GLAZE 4.7K METAL GLAZE 10K	5% 5%	1/10W 1/10W
Q310 Q311	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R055 R056		METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W
Q312 Q313	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R057		METAL GLAZE 4.7K	5%	1/10W
Q314		TRANSISTOR 2SD601A-Q		R058 R059	1-216-295-91	METAL GLAZE 10K CONDUCTOR, CHIP	5%	1/10 <b>W</b>
Q315 Q316	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		R060 R061		METAL GLAZE 4.7K METAL GLAZE 220	5% 5%	1/10 <b>W</b> 1/10 <b>W</b>
Q317	6-729-216-22	TRANSISTOR 2SA1162-G						



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION	<u> </u>	REMARK
R062 R063		METAL GLAZE 33K METAL GLAZE 470	5%	1/10W	R311	1-216-025-91	METAL GLAZE 100	5%	1/10 <b>W</b>
R064		METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R312	1-216-033-00	METAL GLAZE 220	5%	1/10W
R065	1-216-097-91	METAL GLAZE 100K	5%	1/10W	R313	1-216-081-00	METAL GLAZE 22K	5%	1/10W
R066	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R314		METAL GLAZE 220	5%	1/10W
R067	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R315 R317		METAL GLAZE 5.6K METAL GLAZE 220	5% 5%	1/10W 1/10W
R068		METAL GLAZE 1K	5%	1/10W	Rom			3 /0	1/10 **
R069		METAL GLAZE 10K	5%	1/10W	R318		METAL GLAZE 8.2K	5%	1/10W
R071 R072		METAL GLAZE 10K METAL GLAZE 470	5% 5%	1/10W 1/10W	R319 R320		METAL GLAZE 470 METAL GLAZE 4.7K	5% 5%	1/8W 1/10W
K072	1-210-0-1-00	METAL GLAZE 470	370	1/10**	R321		METAL GLAZE 4.7K	5%	1/10W 1/8W
R073		METAL GLAZE 1K	5%	1/10W	R323		CONDUCTOR, CHIP	• ,-	
R074 R075		METAL GLAZE 1K METAL GLAZE 6.8K	5% 5%	1/10W	D224	1 214 025 01	METAL GLAZE 100	E 01	1/1007
R076		METAL GLAZE 0.8K	5%	1/10W 1/10W	R324 R325		METAL GLAZE 100 METAL GLAZE 560	5% 5%	1/10W 1/10W
R079		METAL GLAZE 22K	5%	1/10W	R326		METAL GLAZE 15K	5%	1/10W
D000	1 216 022 00	METAL OLAZE 90	E CT	1 /1 0337	R327		METAL GLAZE 220	5%	1/10W
R080 R081		METAL GLAZE 82 METAL GLAZE 470	5% 5%	1/10W 1/10W	R328	1-216-025-91	METAL GLAZE 100	5%	1/10W
R082		METAL GLAZE 68K	5%	1/10W	R329	1-216-085-00	METAL GLAZE 33K	5%	1/10W
R083		METAL GLAZE 4.7K	5%	1/10W	R330		METAL GLAZE 390	5%	1/10W
R084	1-216-073-00	METAL GLAZE 10K	5%	1/10 <b>W</b>	R331		METAL GLAZE 2.7K	5%	1/10W
R085	1-216-089-91	METAL GLAZE 47K	5%	1/10W	R332 R333		METAL GLAZE 1K METAL CHIP 15K	5% 0.50%	1/10W 1/10W
R086		METAL GLAZE 100K	5%	1/10W	RSSS	1-200-010-11	WEINE CITI 15K	0.50 %	1/10/1
R087		METAL GLAZE 10K	5%	1/10W	R335		METAL GLAZE 220	5%	1/10W
R088 R089		METAL GLAZE 47K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W	R336 R337		METAL GLAZE 220	5% 5%	1/10W 1/10W
NU09	1-210-003-00	METAL GLAZE 4./K	370	1/10W	R338		METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W
R090	1-216-073-00	METAL GLAZE 10K	5%	1/10 <b>W</b>	R339		METAL CHIP 1.5K	0.50%	1/10W
R091		METAL GLAZE 22K	5%	1/10W	D240	1 21 4 022 00	METAL CLASS CO.		4 /4 0444
R092 R093		METAL GLAZE 22K CONDUCTOR, CHIP	5%	1/10W	R340 R341		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W
R094		METAL GLAZE 22K	5%	1/10W	R342		METAL GLAZE 220	5%	1/10W
2004					R343		METAL GLAZE 15K	5%	1/10W
R095 R096		METAL GLAZE 22K METAL GLAZE 22K	5% 5%	1/10W 1/10W	R344	1-216-073-00	METAL GLAZE 10K	5%	1/10W
R097		METAL GLAZE 22K	5%	1/10W	R345	1-216-025-91	METAL GLAZE 100	5%	1/10W
R098	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R346		METAL GLAZE 330	5%	1/10W
R099	1-216-081-00	METAL GLAZE 22K	5%	1/10W	R347		METAL GLAZE 470	5%	1/10W
R100	1-216-295-91	CONDUCTOR, CHIP			R348 R352		METAL GLAZE 1K METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
R101		METAL GLAZE 4.7K	5%	1/10W	N.S.S.E			5 70	1/10//
R102		METAL GLAZE 47K	5%	1/10W	R353		METAL GLAZE 6.8K	5%	1/10W
R103 R104		METAL GLAZE 680 METAL GLAZE 220	5% 5%	1/10W 1/10W	R354 R355		METAL GLAZE 1.5K METAL GLAZE 8.2K	5% 5%	1/10W 1/10W
KIUT	1-210-055-00	METAL GLAZE 220	3 70	1/10 **	R356		METAL GLAZE 8.2K METAL GLAZE 180	5%	1/10W
R106		METAL GLAZE 220	5%	1/10 <b>W</b>	R357		METAL GLAZE 180	5%	1/10W
R107 R108		METAL GLAZE 220	5%	1/10W	D250	1 216 040 01	NOTAL CLASE 1V	E 01	1 /1 0337
R109		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R358 R359		METAL GLAZE 1K METAL GLAZE 330	5% 5%	1/10W 1/10W
R110		METAL GLAZE 220	5%	1/10W	R360		METAL GLAZE 270	5%	1/10W
D111	1 21 4 0 40 01	MEMAL OF ACT 11	- cu	1 /4 0777	R361		METAL GLAZE 1K	5%	1/10W
R111 R112		METAL GLAZE 1K METAL GLAZE 47K	5% 5%	1/10W 1/10W	R362	1-216-035-00	METAL GLAZE 270	5%	1/10W
R113		METAL GLAZE 47K	5%	1/10W	R363	1-216-049-91	METAL GLAZE 1K	5%	1/10W
R114		METAL GLAZE 4.7K	5%	1/10W	R364	1-216-025-91	METAL GLAZE 100	5%	1/10W
R115	1-210-065-00	METAL GLAZE 4.7K	5%	1/10 <b>W</b>	R366 R367		METAL GLAZE 1.5K METAL GLAZE 2.2K	5% 5%	1/10W 1/10W
R116	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W	R368		METAL GLAZE 2.2K	5%	1/10W
R117	1-216-047-91	METAL GLAZE 820	5%	1/10W					
R118 R119		METAL GLAZE 820	5%	1/10W	R369		METAL GLAZE 3.3K	5%	1/10W
R120		METAL GLAZE 820 METAL GLAZE 220	5% 5%	1/10W 1/10W	R370 R371		METAL GLAZE 220 METAL GLAZE 1K	5% 5%	1/10W 1/10W
			•	2,201,	R372		METAL GLAZE 1.2K	5%	1/10W
R122		METAL GLAZE 220	5%	1/10W	R373	1-216-035-00	METAL GLAZE 270	5%	1/10W
R123 R124		METAL GLAZE 220 METAL GLAZE 220	5% 5%	1/10W 1/10W	R374	1_216_095.00	METAL GLAZE 33K	5%	1/10 <b>W</b>
R300		METAL GLAZE 220 METAL GLAZE 100	5%	1/10W	R375		METAL GLAZE 33K METAL GLAZE 12K	5%	1/10W
R301		METAL GLAZE 2.7K	5%	1/10W	R376	1-216-093-00	METAL GLAZE 68K	5%	1/10W
R302	1_216 040 01	METAL GLAZE 1K	501-	1/10W	R377		METAL GLAZE 560	5% 5%	1/10W 1/10W
R302 R303		METAL GLAZE 1K METAL GLAZE 1K	5% 5%	1/10W 1/10W	K3/8	1-210-039-00	METAL GLAZE 2.7K	5%	1/1UW
R304	1-216-049-91	METAL GLAZE 1K	5%	1/10W	R379		METAL GLAZE 27K	5%	1/10W
R305		METAL GLAZE 100	5%	1/10W	R380		METAL GLAZE 100K	5%	1/10W
R306	1-210-025-91	METAL GLAZE 100	5%	1/10W	R381 R382		METAL GLAZE 8.2K METAL GLAZE 33K	5% 5%	1/10W 1/10W
R307	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W	R383		METAL GLAZE 55K	5%	1/10W
R308	1-216-073-00	METAL GLAZE 10K	5%	1/10W					
R309		METAL GLAZE 100	5%	1/10W	R384		METAL GLAZE 1.5K	5%	1/10W
R310	1-210-081-00	METAL GLAZE 22K	5%	1/10 <b>W</b>	R385	1-210-083-00	METAL GLAZE 33K	5%	1/10W

The componants identified by shading and mark \(\Lambda\) are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque \( \Lambda \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		]	REMARK
R386 R387 R388	1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE	1K	5% 5% 5%	1/10W 1/10W 1/10W	C680 C682 C683	1-124-903-11 1-124-903-11 1-107-635-11	ELECT	1MF 1MF 4.7MF	20% 20% 20%	50V 50V 160V
R389 R390 R391 R392 R393	1-216-033-00 1-216-061-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 3.3K 2.7K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C690 C691	1-126-934-11 1-126-964-11		220MF 10MF	20% 20%	16V 50V
R394		CONDUCTOR, C				CN606	1-695-915-11	TAB (CONTACT			
X001	1 570 017 11	<crystal></crystal>	WOT A I			CN609 CN610 CN615 CN616	* 1-564-507-11 * 1-573-963-11 1-695-915-11	PLUG, CONNECTOR PIN, CONNECTOR TAB (CONTACTOR PLUG, CONNECTOR	CTOR 4P OR (PC BO T)	ARD) 3I	P
X301 X302	1-577-611-11	OSCILATOR, C	CERAMIC			CN617 CN624 CN625 CN626	* 1-564-507-11 * 1-564-513-11	PIN, CONNECTO PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 4P TOR 10P	R)	
******	*****	******	******	******	*****	CN653		PLUG, CONNEC			
:	* A-1316-257-A	A G BOARD, CO				CN681	*1-573-986-11	PIN, CONNECTO	OR (PC BO	ARD) 5I	•
:	* 4-047-936-01	PLATE, SHIELD						<diode></diode>			
		SCREW (M3X10 <capacitor></capacitor>		)		D601 D604 D605 D606	8-719-991-33 8-719-991-33	DIODE LN4SB6 DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77		
C601 A	k 1-136-311-51		0.47MF	20%	1250	D607		DIODE 188133T			
C602 4 C603 4 C604 4	\$ 1-113-920-91 \$ 1-113-920-91 \$ 1-125-692-11	ELECT	0.0022MF 0.0022MF 820MF	20%	125V 250V 250V 200V 200V	D608 D609 D610 D611 D651	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE D4SBS4-	-77 -77 -77		
C608 C609 C610 C611 C612	1-164-645-11 1-164-645-11 1-136-173-00 1-136-171-00 1-136-173-00	CERAMIC FILM FILM	1000PF 1000PF 0.47MF 0.33MF 0.47MF	10% 10% 5% 5% 5%	500V 500V 50V 50V 50V	D655 D656 D657 D658	8-719-052-92 8-719-022-97 8-719-022-97 8-719-022-97	DIODE D10SBS4 DIODE D2S4MF DIODE D2S4MF DIODE D2S4MF	4F		
C613 C614 C615 C616 A	1-136-171-00 1-164-735-11 1-129-720-00 1-136-311-51 1-113-910-91	CAPACITOR FILM FILM	0.33MF 0.0015MF 0.033MF 0.47MF 470PF	5% 10% 5% 20%	50V 500V 630V 125V 250V	D659 D660 D661 D662 D663	8-719-052-86 8-719-052-86 8-719-052-31 8-719-052-31	DIODE D2S4MF DIODE D2L40-T DIODE D1NL40- DIODE D1NL40-DIODE D1NL40-	A A -TR2 -TR2		
C619 A	1-113-910-91 1-128-548-11	ELECT FLECT	470PF 4700MF	10% 20%	250V 25V	D664 D665		DIODE 1SS133T			
C652 C653 C656	1-128-548-11 1-162-318-11 1-128-548-11	ELECT CERAMIC	4700MF	20% 10% 20%	25V 500V 25V	D666 D667 D669 D670	8-719-110-58 8-719-921-80 8-719-991-33	DIODE 1331331 DIODE RD22ESI DIODE MTZJ-11 DIODE 1SS133T DIODE RD15ESI	B3 .B -77		
C657 C658 C659 C660 C661	1-126-926-11 1-126-768-11 1-126-944-11 1-164-644-11 1-123-024-21	ELECT ELECT CERAMIC	1000MF 2200MF 3300MF 330PF 33MF	20% 20% 20% 10%	10V 16V 25V 500V 160V	D671 D672 D673 D674 D675	8-719-991-33 8-719-109-54 8-719-110-49 8-719-991-33	DIODE 1SS133T DIODE RD2.2ES DIODE RD18ESI DIODE 1SS133T DIODE RD5.1ES	7-77 8B2 B2 -77		
C662 C663 C664 C665 C667	1-107-636-11 1-126-948-11 1-126-235-11 1-126-964-11 1-126-951-11	ELECT ELECT ELECT	10MF 100MF 100MF 10MF 470MF	20% 20% 20% 20% 20%	160V 35V 6.3V 50V 35V	D676 D677 D678 D679 D680	8-719-991-33 8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77 -77		
C668 C669 C670 C671 C672	1-104-664-11 1-162-318-11 1-104-664-11 1-104-664-11 1-104-665-11	CERAMIC ELECT ELECT ELECT	47MF 0.001MF 47MF 47MF 100MF	20% 10% 20% 20% 20%	25V 500V 25V 25V 25V	D681 D682 D683 D685 D686	8-719-200-82 8-719-200-82 8-719-200-82 8-719-991-33	DIODE 11ES2 DIODE 11ES2 DIODE 11ES2 DIODE 1SS133T DIODE 1SS133T			
C673 C674 C675 C676 C677	1-104-664-11 1-104-664-11 1-104-664-11 1-104-664-11 1-125-473-11	ELECT ELECT	47MF 47MF 47MF 47MF 1000MF	20% 20% 20% 20% 20%	25V 25V 25V 25V 25V 160V	D687 D688 D689 D690 D691	8-719-109-85 8-719-991-33 8-719-991-33 8-719-109-89	DIODE RD5.1ES DIODE 1SS133T DIODE 1SS133T DIODE RD5.6ES DIODE 1SS133T	SB2 -77 -77 SB2		
C678 C679	1-107-635-11 1-164-644-11		4.7MF 330PF	20% 10%	160V 500V	D693		DIODE 188133T			



Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		Ŗ	REMARK	1	REF. NO.	PART NO.	DESCRIPTION			REMARK
		<fuse></fuse>				İ	R655	1-249-441-11	CARBON	100K	5%	1/4W
F601 4		FUSE 6 3A/125V CLIP, FUSE ; F6	01				R656 R657 R658 R659	1-249-429-11 1-247-883-00 1-249-417-11	CARBON CARBON	10K 150K 1K	5% 5% 5%	2W F 1/4W 1/4W F
FB651	1_410_306_41	<pre><ferrite bead<="" pre=""></ferrite></pre>		D 0 45111	u		R660	1-249-417-11		1K	5%	1/4W
FB652		FERRITE BEAD					R661 R662 R663 R664	1-215-471-00 1-215-452-91 1-215-421-00 1-249-429-11	METAL METAL	120K 20K 1K	1% 1% 1%	1/4W 1/4W 1/4W
		<ic></ic>					R665	1-249-425-11		10K 4.7K	5% 5%	1/4W 1/4W
IC651 A IC652		POWER MODUL IC MCT7812CT	.E DM-48				R666 R667 R668 R670	1-249-429-11 1-249-429-11 1-215-487-00 1-247-895-91	CARBON METAL CARBON	10K 10K 560K 470K	5% 5% 1% 5%	1/4W 1/4W 1/4W 1/4W
1 651	1 402 500 11	<coil></coil>	***				R671	1-249-429-11		10 <b>K</b>	5%	1/4W
L651 L652 L653 L654 L655	1-403-588-11 1-412-519-11 1-403-588-11	CIL, CHOKE 22U CIL, CHOKE 22U INDUCTOR 3.3U CIL, CHOKE 22U CIL, CHOKE 22U	J <b>H</b> J <b>H</b> JH				R672 R673 R674 R675 R676	1-247-807-31 1-249-423-11 1-249-413-11 1-249-429-11 1-249-421-11	CARBON CARBON CARBON	100 3.3K 470 10K 2.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
L656 L657 L658	1-403-588-11	INDUCTOR 3.3U CIL, CHOKE 22U CIL, CHOKE 22U	JH				R677 R678 R679 R680 R681	1-249-417-11 1-249-423-11 1-249-423-11 1-249-413-11 1-249-425-11	CARBON CARBON CARBON	1K 3.3K 3.3K 470 4.7K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
		<transistor></transistor>					R682	1-249-403-11		68	5%	1/4W
Q601 Q602 Q651 Q652 Q653	8-729-019-49 8-729-820-82 8-729-119-76	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC4834M SA1208-S SA1175-HF				R683 R684 R685 R686	1-249-417-11 1-249-417-11 1-247-863-91 1-249-429-11	CARBON CARBON	1K 1K 22K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
Q654		TRANSISTOR 25					R687 R688	1-249-423-11 1-249-423-11		3.3K 3.3K	5% 5%	1/4W 1/4W
Q655 Q656 Q657 Q658	8-729-119-76 8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1175-HF SC2785-HF	Æ Œ			R689 R690 R691	1-249-429-11 1-247-863-91 1-249-417-11	CARBON	10K 22K 1K	5% 5% 5%	1/4W 1/4W 1/4W
Q659 Q660 Q661 Q662	8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1175-HF SA1175-HF SA1175-HF	E E E			R693 R694 R695 R697 R698	1-249-425-11 1-249-425-11 1-249-429-11 1-249-413-11 1-249-429-11	CARBON CARBON CARBON	4.7K 4.7K 10K 470 10K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
Q663	8-729-119-76	TRANSISTOR 2	SA1175-HF	Œ			R699	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W
R602 A	k 1-219-236-91	<resistor></resistor>	2.2M	20%	1/2W				<relay></relay>			
R603 A R604 A R605 A		WIREWOUND CARBON CARBON	2.2 330K 330K 0.1	5% 5% 5% 10%	10W 1/4W 1/4W 1/2W	F		A 1-755-032-11 5 1-755-032-11				
R607	1-247-891-00	CARBON	330K	5%	1/4W				<transforme< td=""><td>ER&gt;</td><td></td><td></td></transforme<>	ER>		
R608 R609 R610 R611	1-247-891-00 1-216-369-00 1-247-891-00 1-247-891-00	METAL OXIDE CARBON	330K 1 330K 330K	5% 5% 5% 5%	1/4W 2W 1/4W 1/4W	F	T602 T603 T604	1 1-429-728-11 1 1-423-665-11 1 1-427-864-11	TRANSFORMER TRANSFORMER TRANSFORMER TRANSFORMER	CONVEI POWER CONVEI	RTER (F RTER (F	
R612 R613	1-216-369-00 1-247-791-91	METAL OXIDE	1 22	5% 5%	2W 1/4W	F	T605 ,	D 1-44/-63U-11	TRANSFORME	(, LINE PII	-1 EK	
R614 R615 R616	1-247-791-91 1-247-791-91	CARBON CARBON	22 22	5% 5%	1/4W 1/4W		*****	******	*****	*****	*****	*****
R631	1-247-791-91 1-247-863-91		22 22K	5% 5%	1/4W 1/4W			* A-1331-498-A	CR BOARD, C			
R632 R633	1-247-807-31 1-247-807-31	CARBON CARBON	100 100	5% 5%	1/4W 1/4W							
R634 R635	1-249-417-11 1-249-425-11	CARBON CARBON	1K 4.7K	5% 5%	1/4W 1/4W				<capacitor></capacitor>			
R636 R651 R653 R654	1-249-413-11 1-216-370-11 1-249-418-11 1-215-473-00	METAL OXIDE CARBON	470 1.2 1.2K 150K	5% 5% 5% 1%		F F	C701 C702 C703 C704	1-104-664-11 1-107-662-11 1-161-754-00 1-126-768-11	ELECT CERAMIC	47MF 22MF 0.001MF 2200MF	20% 20% 10% 20%	25V 250V 2KV 16V

The componants identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

specified.

Les composants identifies par une trame et une marque 🛕 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C705	1-102-050-00	CERAMIC	0.01MF		500V	R716	1-249-437-11		47K	5%	1/4W
C706	1-102-953-00	CERAMIC	18PF	5%	50V	R718	1-249-417-11		1K	5%	1/4W
C707 C708	1-102-129-00 1-104-664-11	ELECT	0.01MF 47MF	10% 20%	50V 25V	R719 R720	1-247-807-31 1-249-437-11		100 47K	5% 5%	1/4W 1/4W
C709 C710	1-107-651-11 1-102-157-00		4.7MF 560PF	20% 10%	250V 500V	R721 R722	1-202-549-00 1-202-549-00		100 100	20% 20%	1/2W 1/2W
C714	1-162-115-00	CERAMIC	330PF	10%	2KV						
C715 C716	1-101-005-00 1-102-050-00		0.022MF 0.01MF		50V 500V	00501	1 510 100 11	<spark gap=""></spark>			
		CONNECTOR				SG701 SG702	1-519-422-11	GAP, SPARK GAP, SPARK			
CN701	* 1~508_784_00	<connector> PIN, CONNECTOR</connector>		итси)	1 D	SG703	1-319-422-11	GAP, SPARK			
CN702	* 1-564-510-11	PLUG, CONNEC	TOR 7P	11011)	11	******	*****	******	*****	*****	*****
CN704	* 1-564-512-11	PLUG, CONNEC	TOR 9P				* A-1331-499-A	CG BOARD, C	OMPLETE		
CN706	1-695-915-11	TAB (CONTACT	Γ)					*********	*******		
		SOCKET, PICTU PLUG, CONNEC									
								<capacitor></capacitor>			
D701	B 710 001 22	<diode></diode>				C731 C732	1-161-754-00 1-107-662-11	ELECT	0.001MF 22MF	10% 20%	2KV 250V
D701 D702 D703	8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	<i>-77</i>			C733 C736	1-102-050-00 1-126-964-11	ELECT	0.01MF 10MF	20%	500V 50V
D704 D705	8-719-921-86	DIODE 1551531 DIODE MTZJ-13 DIODE 11EQS04	1			C738	1-107-651-11		4.7MF	20%	250V
D703		DIODE 1SS133T				C739 C740 C741	1-102-965-00 1-126-964-11 1-102-157-00	ELECT	39PF 10MF 560PF	5% 20% 10%	50V 50V 500V
D707 D708	8-719-921-86	DIODE MTZJ-13 DIODE 1SS83				C742 C743	1-162-115-00 1-162-115-00 1-101-005-00	CERAMIC	330PF 0.022MF	10%	2KV 50V
D710 D711	8-719-109-89	DIODE RD5.6ES DIODE 1SS133T				C744	1-101-005-00		0.01MF		500V
D713	8-719-510-48	DIODE D1N20R									
D716 D717		DIODE MTZJ-13 DIODE MTZJ-13						<connector></connector>			
						CN732	* 1-564-512-11	PIN, CONNECTO PLUG, CONNEC	CTOR 9P	ITCH)	P
10701	0.750.246.40	<ic></ic>	2			CN734	* 1-564-511-11	PLUG, CONNEC	CTOR 8P		
IC701	8-739-340-42	IC TDA6101Q/N	3					PLUG, CONNECTAB (CONTACT			
		<coil></coil>				CN736 CN738	↑-093-913-11 1-251-179-11	SOCKET, PICTU	IRE TUBE		
L701	1-408-429-00	INDUCTOR 470	UH					<diode></diode>			
		<neon lamp=""></neon>				D731	8-719-921-86	DIODE MTZJ-13	3		
NL701	1-519-108-XX	LAMP, NEON				D732 D736	8-719-510-48	DIODE 1SS83 DIODE D1N20R			
						D737	8-719-921-86	DIODE MTZJ-13	3		
0701	9 700 110 74	<transistor< td=""><td></td><td>-w</td><td>!</td><td></td><td></td><td><ic></ic></td><td></td><td></td><td></td></transistor<>		-w	!			<ic></ic>			
<b>Q</b> 701	8-/29-119-/0	TRANSISTOR 2	SA11/5-H	:E		IC731	8-759-346-42	IC TDA6101Q/N	3		
		<resistor></resistor>						<coil></coil>			
R701 R702	1-215-411-00 1-215-414-00		390 510	1% 1%	1/4W 1/4W	L731	1-408-420-00	INDUCTOR 470	TIL		
R704 R706	1-202-847-00 1-249-407-11	SOLID	560K 150	20% 5%	1/2W 1/4W	1.731	1-406-429-00	INDUCTOR 4/0	UH		
R707	1-215-423-00		1.2K	1%	1/4W			<neon lamp=""></neon>			
R708 R709	1-202-883-11 1-215-437-00		680K 4.7K	20% 1%	1/2W 1/4W	NL731	1-519-108-XX	KLAMP, NEON			
R710 R711	1-215-427-00 1-215-427-00	METAL METAL	1.8K 1.8K	1% 1%	1/4W 1/4W			<resistor></resistor>			
R712		METAL OXIDE		5%	2W F	R731	1-202-847-00	SOLID	560K	20%	1/2W
R713 R714	1-202-818-00 1-202-818-00	SOLID	1K 1K	20% 20%	1/2W 1/2W	R733 R734	1-202-883-11 1-202-818-00	SOLID	680 <b>K</b> 1 <b>K</b>	20% 20%	1/2W 1/2W
R715	1-249-436-11	CARBON	39K	5%	1/4W	R735	1-249-407-11	CARBON	150	5%	1/4W







Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $ilde{\Lambda}$  are critical for safety. Replace only with part number specified.

							place portain le m	итного эроспію.	specilied.		
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		R	EMARK
R736	1-249-441-11		100K	5%	1/4W	R767 R768	1-202-818-00 1-202-549-00		1 <b>K</b> 100	20% 20%	1/2W 1/2W
R737 R738 R739 R740 R741	1-202-818-00 1-202-549-00 1-215-420-00 1-215-427-00 1-249-437-11	SOLID METAL METAL	1K 100 910 1.8K 47K	20% 20% 1% 1% 5%	1/2W 1/2W 1/4W 1/4W 1/4W	R769 R770 R771 R773 R774	1-215-421-00 1-249-426-11 1-215-427-00 1-215-903-11 1-249-407-11	CARBON METAL METAL OXIDE	1K 5.6K 1.8K 68K 150	1% 5% 1% 5% 5%	1/4W 1/4W 1/4W 2W F 1/4W
R742	1-215-903-11	METAL OXIDE	68K	5%	2W F	R775	1-202-549-00		100	20%	1/2W
		<spark gap=""></spark>						ODARY CAR			
SG731 SG732 SG733	1-519-422-11	GAP, SPARK GAP, SPARK GAP, SPARK				SG761 SG762 SG763	1-519-422-11	<pre><spark gap=""> GAP, SPARK GAP, SPARK GAP, SPARK</spark></pre>			
******	*****	*****	*****	****	*****	****	****	*****		ن ٿ ش بل بل بل بل بل بل ب	
	* A-1331-500-A	CB BOARD, C				******		E BOARD, CO	MPLETE	*****	*****
							4-382-854-11	**************************************		)	
C741	1 161 754 00	<capacitor></capacitor>		100	A1211			RUBBER, SILIC			
C761 C762 C763	1-161-754-00 1-107-662-11 1-102-050-00	ELECT	0.001MF 22MF 0.01MF	10% 20%	2KV 250V 500V			<capacitor></capacitor>			
C766 C769	1-107-651-11 1-102-965-00	ELECT	4.7MF 39PF	20% 5%	250V 50V	C801 C802 C803		<b>CERAMIC CHIP</b>		20% 5%	160V 50V
C770 C771	1-126-964-11 1-102-157-00	CERAMIC	10MF 560PF	20% 10%	50V 500V	C805 C806	1-110-626-11 1-136-173-00 1-102-030-00	FILM	330MF 0.47MF 330PF	20% 5% 10%	160V 50V 500V
C772 C773 C774	1-162-115-00 1-101-005-00 1-102-050-00	CERAMIC	330PF 0.022MF 0.01MF	10%	2KV 50V 500V	C807 C808 C809	1-106-387-00 1-107-636-11 1-104-664-11	ELECT ELECT	0.068MF 10MF 47MF	10% 20% 20%	200V 160V 25V
		<connector:< td=""><td>&gt;</td><td></td><td></td><td>C810 C811</td><td>1-130-481-00 1-137-475-11</td><td></td><td>0.0068MF 2.2MF</td><td>5% 10%</td><td>50V 250V</td></connector:<>	>			C810 C811	1-130-481-00 1-137-475-11		0.0068MF 2.2MF	5% 10%	50V 250V
CN762 CN763 CN766	*1-564-512-11 *1-564-509-11 1-695-915-11	PIN, CONNECTOR PLUG, CONNECTOR (CONTACTOR CONTACTOR CONT	CTOR 9P CTOR 6P T)		I <b>P</b>	C812 C813 C814 C815 C818	1-126-965-11 1-162-318-11 1-126-968-11 1-162-114-00 # 1=109-833-11	CERAMIC ELECT CERAMIC	22MF 0.001MF 100MF 0.0047MF 0.0145MF		50V 500V 50V 2KV 2.5KV
			***************************************			C819	1-130-489-00		0.033MF	5%	50V
		<diode></diode>				C820 C823	1-124-902-00 1-136-601-11	ELECT FILM	0.47MF 0.01MF	20% 5%	50V 630V
D761 D762 D763	8-719-901-83	DIODE MTZJ-13 DIODE 1SS83 DIODE 1SS1337				C824 C825	1-126-964-11 1-162-318-11		10MF 0.001MF	20% 10%	50V 500V
D764 D765	8-719-921-86	DIODE MTZJ-13 DIODE MTZJ-13	3			C826 C827	1-130-467-00 1-107-651-11	ELECT	470PF 4.7MF	5% 20%	50V 250V
D768 D769		DIODE D1N20R DIODE MTZJ-13				C828 C830 C831	1-111-036-11 1-137-420-11 1-126-934-11	FILM	470MF 0.047MF 220MF	20% 10% 20%	16V 100V 16V
		<ic></ic>				C832 C901	1-126-967-11 1-163-251-11	ELECT CERAMIC CHIP	47MF 100PF	20% 5%	50V 50V
IC761	8-759-346-42	IC TDA6101Q/N	13			C902 C903 C904	1-137-370-11 1-137-431-11 1-137-358-11	FILM FILM	0.01MF 560PF 0.0001MF	5% 5%	50V 50V 50V
		<coil></coil>				C905	1-104-665-11	ELECT	100MF	20%	25V
L761	1-408-429-00	INDUCTOR 470	UH			C906 C907 C908 C909	1-137-370-11 1-104-665-11 1-137-361-11 1-124-903-11	ELECT FILM	0.01MF 100MF 330PF 1MF	5% 20% 5% 20%	50V 25V 50V 50V
		<neon lamp=""></neon>				C911		CERAMIC CHIP		5%	50V
NL760	1-519-108-99	LAMP, NEON <resistor></resistor>				C912 C913 C915 C916	1-124-903-11 1-124-903-11	ELECT ELECT CERAMIC CHIP	1MF 1MF	20% 20% 5% 20%	50V 50V 50V 50V
R761	1-202-847-00	SOLID	560K	20%	1/2W	C917	1-126-964-11		10MF	20%	50V
R763 R764	1-202-883-11 1-202-818-00		680 <b>K</b> 1 <b>K</b>	20% 20%	1/2W 1/2W	C918 C919	1-137-364-11 1-126-964-11		0.001MF 10MF	5% 20%	50V 50V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF, NO.	PART NO.	DESCRIPTION	DEMARK
C920	1-124-902-00		0.47MF	20%	50V				REMARK
C921	1-126-964-11	ELECT	10 <b>MF</b>	20%	50V	D818 D819 D901	8-719-105-82 8-719-404-46	DIODE MA110 DIODE RD5.1M-B2 DIODE MA110	
C923 C924	1-126-964-11 1-126-935-11	ELECT	10MF 470MF	20% 20%	50V 16V	D902 D904		DIODE MA110 DIODE MA110	
C925 C926 C927	1-137-372-11 1-104-665-11 1-137-364-11	ELECT	0.022MF 100MF 0.001MF	5% 20% 5%	50V 25V 50V	D905 D907	8-719-404-46	DIODE MA110 DIODE MA110	
C929	1-137-416-11		0.01MF	10%	100V	D908 D909	8-719-302-43	DIODE RD5.1M-B2 DIODE EL1Z	
C930 C931	1-137-364-11 1-126-967-11	ELECT	0.001MF 47MF	5% 20%	50V 50V	D911		DIODE RD5.1M-B2	
C932 C934	1-124-903-11 1-137-370-11		1 <b>MF</b> 0.01 <b>MF</b>	20% 5%	50V 50V	D912 D913 D914	8-719-404-46	DIODE RD5.1M-B2 DIODE MA110 DIODE MA110	
C935 C936	1-137-399-11 1-126-964-11		0.1MF 10MF	10% 20%	100V 50V	D915 D916	8-719-404-46	DIODE MA110 DIODE RD3.9M-B1	
C937 C938	1-126-964-11 1-126-935-11	ELECT	10MF 470MF	20% 20% 20%	50V 16V	D917		DIODE MA110	
C939	1-126-964-11		10 <b>MF</b>	20%	50V	D918 D919	8-719-404-46	DIODE MA110 DIODE RD13M-B3	
C940 C941	1-104-664-11 1-126-964-11		47MF 10MF	20% 20%	25V 50V	D920 D921	8-759-157-40		
C942 C943	1-126-964-11 1-126-965-11	ELECT	47MF 22MF	20%	25V				
C944	1-126-964-11		10MF	20% 20%	50V 50V	D922 D923	8-719-404-46	DIODE MA110 DIODE MA110	
C945 C946	1-126-964-11 1-124-925-11		10MF	20%	50V	D924 D925	8-719-028-00	DIODE MA110 DIODE MA3033-L	
C947 C948	1-124-925-11 1-104-665-11 1-104-665-11	ELECT	2.2MF 100MF 100MF	20% 20%	50V 25V	D926		DIODE MASSATM TV	
C948 C949	1-126-964-11		100MF 10MF	20% 20%	25V 50V	D927	8-/19-401-32	DIODE MA3047M-TX	
C950 C951	1-126-964-11 1-109-889-11		10MF 1MF	20% 20%	50V 50V			<ferrite bead=""></ferrite>	
C955 C980	1-126-964-11 1-137-368-11	ELECT	10MF 0.0047MF	20%	50V 50V	FB001	1-410-396-41	FERRITE BEAD INDUCTO	OR 0.45UH
		<chip conduc<="" td=""><td>TOP.</td><td></td><td></td><td></td><td></td><td><ic></ic></td><td></td></chip>	TOP.					<ic></ic>	
CJ901	1 216 205 01	CONDUCTOR, O				IC901 IC902	8-759-133-90		
CJ901 CJ902 CJ903	1-216-295-91	CONDUCTOR, C	CHIP			IC903		IC NJM2058D	
CJ903	1-216-295-91	CONDUCTOR, C	CHIP			IC904 IC905		IC M5218AP IC LM7912CT	
		<connector></connector>	•			IC906	8-759-279-76	IC MCT7812CT	
CN802 CN805		PLUG, CONNECTAB (CONTACT						<coil></coil>	
CN827	*1-573-963-11	PIN, CONNECTO PLUG, CONNEC	ÓR (PC BO	ARD)	3P	L801		COIL, CHOKE 100UH	
CN881	*1-573-986-11	PIN, CONNECTO	OR (PC BO	ARD) 5	5P	L802 L803	1-422-613-11	COIL, CHOKE 100UH COIL, AIR CORE	
		PIN, CONNECTO PIN, CONNECTO				L804 L901		COIL, CHOKE 220UH INDUCTOR 39UH	
CN885	*1-506-371-00	PIN, CONNECTO PIN, CONNECTO	OR 2P	AKD) (	Jr.	L902	1-408-416-00	INDUCTOR 39UH	
		PLUG, CONNEC						<neon lamp=""></neon>	
		<diode></diode>				NL802	1-519-108-99	LAMP, NEON	
D801	8-719-109-85	DIODE RD5.1ES	SB2					, -	
D802 D803		DIODE MA110 DIODE ERC38-0	)6					<transistor></transistor>	
D804 D805		DIODE GP08D DIODE ERC06-1	.5S			Q801 Q802		TRANSISTOR 2SC2688-LI TRANSISTOR 2SC2688-LI	
D806	8-719-991-33	DIODE 1SS133T	`-77			Q803 Q806		TRANSISTOR 2SA1221-L TRANSISTOR 2SD1887-C	
D807 D808	8-719-500-71	DIODE ERC06-1 DIODE D8LC40				Q807		TRANSISTOR 2SD601A-Q	
D809 D810		DIODE 1SS133T DIODE ERC06-1				Q808 Q809	8-729-823-81	TRANSISTOR IRFI640LF TRANSISTOR 2SC4632LS	
D811		DIODE EGP20G	-PKG23			Q810 Q811	8-729-823-81	TRANSISTOR 2SC2878-A TRANSISTOR 2SC4632LS	-CB7
D812 D814	8-719-920-67	DIODE MA110 DIODE ERC91-0	)2			Q813		TRANSISTOR 2SA1162-G	
D816 D817		DIODE MA110 DIODE MA110				Q901 Q902	8-729-140-93	TRANSISTOR 2SD601A-Q TRANSISTOR 2SB733-34	9
						Q903	8-729-140-96	TRANSISTOR 2SD774-34	



 The components identified by 
in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.

REF. NO.	orig PART NO.	jinally used. DESCRIPTION		R	EMARK		REF. NO.	PART NO.	DESCRIPTION	•	R	EMARK	831 <b>7</b>
Q904		TRANSISTOR 25	SD601 A-O				R906	1-247-739-11		100			••
Q905		TRANSISTOR 25					R907		METAL GLAZE		5% 5%	1/2W 1/10W	
Q906 Q907		TRANSISTOR 25					R908 R909	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
Q908	8-729-422-27	TRANSISTOR 25	D601A-O			į	R910		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
Q909 Q910		TRANSISTOR 25 TRANSISTOR 25					R911	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
Q911			•				R912		METAL GLAZE		5%	1/10W	
Q911 Q912		TRANSISTOR 28 TRANSISTOR 28					R913 R914		METAL GLAZE		5% 5%	1/10W 1/10W	
Q913 Q914		TRANSISTOR D'TRANSISTOR 25					R915 R916	1-216-091-00	METAL GLAZE METAL GLAZE	56K	5%	1/10W	•
Q915		TRANSISTOR 25									5%	1/10W	
							R917 R918		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
		<resistor></resistor>					R919 R920		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	•
R800		METAL CHIP		0.50%	1/10W		R921		METAL GLAZE		5% 5%	1/10W	
R801 R802	1-216-033-00 1-249-421-11	METAL GLAZE CARBON		5% 5%	1/10W 1/4W		R922	1-216-073-00	METAL GLAZE	10 <b>K</b>	5%	1/10W	,
R804 R805	1-249-425-11		4.7K	5%		F	R923	1-216-077-00	METAL GLAZE	15K	5%	1/10W	,
				5%	I W	r	R924 R926		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R806 R807	1-249-431-11 1-260-325-11		15K 560	5% 5%	1/4W 1/2W	F	R927	1-249-377-11	CARBON	0.47	5%	1/4W	F
<b>M</b> R808 ∠		CARBON CARBON			1/4W		R928		METAL GLAZE		5%	1/10W	
R810	1-249-427-11		6.8K	5%	1/4W 1/4W	F	R929 R930		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R811	1-216-097-91	METAL GLAZE	100K	5%	1/10W		R931 R932		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R812 R813	1-216-395-00	METAL OXIDE	3.3	5%	3W	F							
R814		METAL OXIDE METAL OXIDE		5% 5%	3W 3W	F	R933 R934		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R816	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W		R935 R936		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R817		METAL OXIDE		5%	3W	F	R937		METAL GLAZE		5%	1/10W	
R818 R819	1-249-405-11 1-216-089-91	METAL GLAZE	100 47 <b>K</b>	5% 5%	1/4W 1/10W		R938	1-208-810-11	METAL CHIP	15K	0.50%	1/10W	
R820 R821		METAL OXIDE METAL GLAZE		5% 5%	3W 1/10W	F	R939 R940		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
							R941	1-216-091-00	<b>METAL GLAZE</b>	56K	5%	1/10W	7
R822 R823		METAL OXIDE METAL GLAZE		5% 5%	3W 1/10W	F	R942	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R825 R826		METAL OXIDE METAL GLAZE		5% 5%	3W 1/10W	F	R943 R944	1-249-377-11	CARBON METAL GLAZE	0.47	5% 5%	1/4W 1/10W	
R830		METAL OXIDE		5%	3W	F	R945	1-216-077-00	METAL GLAZE	15K	5%	1/10W	7
R831		METAL OXIDE		5%	3W	F	R946 R947		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R832 R836	1-216-049-91 1-202-818-00	METAL GLAZE	1K 1K	5% 20%	1/10W 1/2W		R948	1-216-051-00	METAL GLAZE	1 2K	5%	1/10W	,
R837	1-215-870-11	METAL OXIDE	1.5K	5%	1W	F	R950	1-216-049-91	<b>METAL GLAZE</b>	1 <b>K</b>	5%	1/10W	7
R838	1-247-807-31		100	5%	1/4W	ļ	R952 R954	1-216-049-91	METAL GLAZE METAL	1K 100K	5% 1%	1/10W 1/4W	
R839 R841	1-249-429-11 1-216-491-11	CARBON METAL OXIDE	10K 56K	5% 5%	1/4W 3W	F	R955	1-214-769-00	METAL	47K	1%	1/4W	
R843 R844	1-202-549-00	SOLID	100	20%	1/2W	- 1	R956		METAL CHIP	10K	0.50%	1/10W	
R846	1-202-838-00	METAL OXIDE SOLID	100K	5% 20%	3W 1/2W	F	R957 R958		METAL CHIP METAL CHIP	120K 150K	0.50% 0.50%	1/10W 1/10W	
R847	1-216-073-00	METAL GLAZE	10 <b>K</b>	5%	1/10W		R959 R960	1-214-757-00	METAL METAL GLAZE	15K 15K	1% 5%	1/4W 1/10W	,
R849	1-247-863-91	CARBON	22K	5%	1/4W								
R850 R851		METAL GLAZE METAL CHIP	4.7K	5% 0.50%	1/10W 1/10W		R962 R963	1-208-806-11	METAL CHIP METAL	10K 6.8K	0.50% 1%	1/10W 1/4W	
R852	1-208-806-11	METAL CHIP	10 <b>K</b>	0.50%	1/10W		R964 R965	1-214-757-00	METAL GLAZE	15K 100K	1% 5%	1/4W 1/10W	,
R854	1-249-447-11		1	5%	1/4W	F	R966	1-214-757-00		15K	1%	1/4W	
R855 R856	1-208-822-11	METAL CHIP METAL CHIP	47K 47K	0.50% 0.50%	1/10W 1/10W		R967	1-216-025-91	METAL GLAZE	100	5%	1/10W	,
R857 R858		METAL CHIP METAL CHIP	100K 15K	0.50% 0.50%	1/10W 1/10W		R968 R969	1-214-751-00 1-214-731-00		8.2K 1.2K	1% 1%	1/4W 1/4W	
						_	R970	1-214-757-00	METAL	15 <b>K</b>	1%	1/4W	
R865 R866	1-532-781-11	METAL OXIDE FUSE, MICRO (S	ECONDAR			F	R971	1-210-121-91	METAL GLAZE	IM	5%	1/10W	
R883 R888		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	ļ	R972 R973		METAL CHIP METAL GLAZE	100K 22K	0.50% 5%	1/10W 1/10W	
R901		METAL GLAZE		5%	1/10W	ļ	R974	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	,
R902		METAL GLAZE		5%	1/10W	Ì	R975 R976		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	
R903 R904		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	ļ	R977	1-216-075-00	METAL GLAZE	12K	5%	1/10W	,
R905	1-247-739-11		100	5%	1/2W	F	R978		METAL GLAZE		5%	1/10W	

The componants identified by shading and mark A are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque \(\hat{L}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.





		, , , , , , , , , , , , , , , , , , ,	a. 1. 1.0 (1.0) (1.0)		origina	lly used.					
REF. NO.	PART NO.	DESCRIPTION		F	REMARK	REF. NO.	PART NO.	DESCRIPTION		;	REMARK
R979 R980 R981 R982	1-216-081-00 1-216-073-00 1-216-671-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	22K 10K 6.8K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	C1613 C1615 C1617 C1619 C1620	1-126-968-11 1-104-665-11 1-126-941-11 1-104-665-11 1-126-941-11	ELECT ELECT ELECT	100MF 100MF 470MF 100MF 470MF	20% 20% 20% 20% 20%	50V 25V 25V 25V 25V
R983 R984 R985 R986 R987	1-208-812-11 1-216-049-91	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	27K 18K 1K	5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W	C1622 C1701 C1702 C1703 C1704	1-163-099-00		18PF	20% 20% 10% 5% 5%	25V 16V 25V 50V 50V
R988 R989 R990 R991	1-216-462-00 1-215-897-11 1-208-801-11	METAL GLAZE METAL OXIDE METAL OXIDE METAL CHIP	8.2K	5% 5% 0.50%	1/4W 2W F 2W F 1/10W	C1705 C1709 C1723 C1724	1-163-099-00 1-163-031-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	18PF 0.01MF 100PF	5% 5% 5%	50V 50V 50V 50V
R992 R993 R994 R995 R996	1-208-814-11	CARBON CARBON METAL CHIP METAL CHIP	15K 15K 100 12K 22K	5% 5% 5% 0.50% 0.50%	1/4W 1/4W 1/4W 1/10W 1/10W	C1801 C1802 C1803 C1805 C1806	1-124-903-11 1-126-964-11 1-163-809-11 1-163-809-11	ELECT	1MF 10MF 0.047MF 0.047MF	20% 20% 10% 10% 5%	50V 50V 25V 25V 50V
R997 R998 R999	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE <spark gap=""></spark>	10 <b>K</b>	5% 5% 5%	1/10W 1/10W 1/10W	C1807 C1808 C1809 C1810 C1811	1-163-809-11 1-104-661-91 1-104-661-91 1-163-809-11	ELECT CERAMIC CHIP	0.047MF 330MF 330MF 0.047MF	10% 10% 20% 20% 10%	25V 25V 16V 16V 25V
SG801		GAP, SPARK <transforme td="" transformer<=""><td></td><td>YBACK</td><td></td><td>C1812 C1813 C1814 C1816 C1817 C1818</td><td>1-163-275-11 1-163-809-11 1-163-251-11 1-163-251-11</td><td>CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP</td><td>0.001MF 0.047MF 100PF 100PF</td><td>10% 5% 10% 5% 5% 10%</td><td>25V 50V 25V 50V 50V 25V</td></transforme>		YBACK		C1812 C1813 C1814 C1816 C1817 C1818	1-163-275-11 1-163-809-11 1-163-251-11 1-163-251-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.047MF 100PF 100PF	10% 5% 10% 5% 5% 10%	25V 50V 25V 50V 50V 25V
	. 1-427-980-11	TRANSFORMER TRANSFORMER	, FERRITE	NTAL D (LOT)		C1819 C1820 C1821 C1822 C1823	1-126-933-11 1-163-005-11 1-124-902-00	ELECT CERAMIC CHIP ELECT CERAMIC CHIP	100MF 470PF 0.47MF	20% 10% 20% 10% 20%	16V 50V 50V 50V 50V
	* A-1346-296-A 4-382-854-11	D BOARD, CO! ************************************	MPLETE *******		*******	C1824 C1825 C1826 C1827 C1828		ELECT		20% 20% 20% 10% 10%	50V 50V 50V 25V 25V
C1502 C1503	1-126-943-11	<capacitor></capacitor>	2200MF	20% 10%	25V 50V	C1829 C1830 C1831 C1832 C1833	1-163-809-11 1-104-661-91 1-104-661-91		0.047MF 330MF 330MF	10% 10% 20% 20% 10%	25V 25V 16V 16V 25V
C1504 C1505 C1506	1-126-943-11 1-136-177-00 1-102-228-00	ELECT FILM	2200MF 1MF 470PF	20% 5% 10%	25V 50V 500V	C1834 C1835 C1836 C1837 C1838	1-163-809-11 1-163-809-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.047MF 0.047MF	10% 10% 10% 10% 20%	25V 25V 25V 16V 50V
C1508 C1509 C1510 C1511	1-126-968-11 1-137-401-11 1-137-423-11	FILM FILM	100MF 0.22MF 0.15MF	5% 20% 10% 10%	50V 50V 100V 100V	C1839 C1840 C1841 C1842	1-126-968-11 1-124-903-11 1-126-967-11 1-163-251-11	ELECT ELECT ELECT CERAMIC CHIP		20% 20% 20% 5%	50V 50V 50V 50V
C1512 C1513 C1514 C1515 C1516	1-163-031-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	10% 5% 5%	100V 50V 50V 50V 50V	C1843 C1844 C1845 C1846 C1847	1-126-967-11 1-163-809-11 1-163-809-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 0.047MF 0.047MF	5% 20% 10% 10% 10%	50V 50V 25V 25V 25V
C1517 C1551 C1603 C1604 C1605	1-126-964-11 1-163-251-11 1-163-251-11	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	10MF 100PF 100PF	5% 20% 5% 5% 5%	50V 50V 50V 50V 50V	C1848 C1849 C1850 C1851	1-163-809-11 1-126-968-11 1-126-968-11 1-137-399-11	CERAMIC CHIP ELECT ELECT FILM	0.047MF 100MF 100MF 0.1MF	10% 20% 20% 5%	25V 50V 50V 50V
C1606 C1607 C1608 C1611 C1612	1-163-251-11		100PF	5% 5% 5% 20% 20%	50V 50V 50V 50V 25V	C1852 C1853 C1854 C1855 C1856 C1857	1-126-968-11 1-137-378-11 1-126-963-11 1-124-903-11 1-104-665-11 1-126-968-11	FILM ELECT ELECT ELECT	100MF 0.22MF 4.7MF 1MF 100MF 100MF	20% 5% 20% 20% 20% 20%	50V 50V 50V 50V 25V 50V



Les composants identifies par une trame et une marque  $\triangle$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION REMARK
C1858	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	CJ59 CJ60	1-216-295-91	CONDUCTOR, CHIP CONDUCTOR, CHIP
C1859 C1860		CERAMIC CHIP CERAMIC CHIP		10% 10%	25V 25V	CJ62 CJ63	1-216-295-91	CONDUCTOR, CHIP
C1861	1-126-968-11	ELECT	100MF	20%	50V	CJ63	1-210-293-91	CONDUCTOR, CHIP
C1862 C1863	1-124-903-11 1-136-173-00		1MF 0.47MF	20% 5%	50V 50V			<connector></connector>
C1864	1-124-903-11		1MF	20%	50V			PLUG, CONNECTOR 3P
C1865 C1866	1-124-903-11 1-126-967-11		1MF 47MF	20% 20%	50V 50V	CN1612	*1-564-507-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P
								PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P
		<chip conduc<="" td=""><td></td><td></td><td></td><td>CN1716</td><td>* 1-564-507-11</td><td>PLUG, CONNECTOR 4P</td></chip>				CN1716	* 1-564-507-11	PLUG, CONNECTOR 4P
CJ1 CJ2		CONDUCTOR, C						PLUG, CONNECTOR 5P PLUG, CONNECTOR 13P
CJ3 CJ4	1-216-295-91	CONDUCTOR, C	CHIP					
CJ5	1-216-295-91	CONDUCTOR, C	CHIP					<diode></diode>
CJ6 CJ7		CONDUCTOR, C				D1501 D1502		DIODE GP08D DIODE RD5.6ESB2
CJ8 CJ9	1-216-295-91	CONDUCTOR, C	CHIP			D1503	8-719-971-20	DIODE ERC38-06
CJ10	1-216-295-91	CONDUCTOR, C	CHIP			D1505 D1551		DIODE RD5.6ESB2 DIODE MTZJ-T-77-3.9
CJ11		CONDUCTOR, C				D1552		DIODE 1SS133T-77
CJ12 CJ13	1-216-295-91	CONDUCTOR, C	HIP			D1601 D1602	8-719-908-03	DIODE GP08D DIODE GP08D
CJ14 CJ15	1-216-295-91 1-216-295-91	CONDUCTOR, C	CHIP CHIP			D1603 D1604		DIODE GP08D DIODE GP08D
CJ16		CONDUCTOR, C				D1803	8-719-991-33	DIODE 1SS133T-77
CJ17 CJ18		CONDUCTOR, C				D1812 D1814		DIODE 1SS133T-77 DIODE 1SS133T-77
CJ19 CJ20		CONDUCTOR, C				D1825 D1826		DIODE 1SS133T-77 DIODE 1SS133T-77
CJ21		CONDUCTOR, C				D1827		DIODE MTZJ-3,6A
CJ22 CJ23	1-216-295-91	CONDUCTOR, C	CHIP			D1931 D1932	8-719-924-16	DIODE MTZJ-T-77-24 DIODE MTZJ-T-77-24
CJ24 CJ25	1-216-295-91	CONDUCTOR, C	CHIP			D1934 D1935	8-719-924-16	DIODE MTZJ-T-77-24 DIODE MTZJ-T-77-24
CJ26		CONDUCTOR, C				D1935		DIODE MTZJ-T-77-24
CJ27	1-216-295-91	CONDUCTOR, C	CHIP			D1937	8-719-924-16	DIODE MTZJ-T-77-24
CJ28 CJ29	1-216-295-91	CONDUCTOR, C	CHIP			D1942 D1945	8-719-924-16	DIODE MTZJ-T-77-24 DIODE MTZJ-T-77-24
CJ30		CONDUCTOR, C				D1946		DIODE MTZJ-T-77-24
CJ31 CJ32	1-216-295-91	CONDUCTOR, C	CHIP			D1947 D1948	8-719-921-86	DIODE MTZJ-T-77-24 DIODE MTZJ-13
CJ33 CJ34	1-216-295-91	CONDUCTOR, C	CHIP			D1949 D1951		DIODE MTZJ-T-77-24 DIODE MTZJ-13
CJ35	1-216-295-91	CONDUCTOR, C	CHIP			D1953	8-719-921-86	DIODE MTZJ-13
CJ36 CJ37	1-216-295-91	CONDUCTOR, C	CHIP			D1954	8-719-921-86	DIODE MTZJ-13
CJ38 CJ39		CONDUCTOR, C						<fuse></fuse>
CJ40	1-216-295-91	CONDUCTOR, C	CHIP			F1601	A 1-532-745-11	FUSE, GLASS TUBE 3.15A/125V
CJ42 CJ43		CONDUCTOR, C				F1602	1-533-223-11	CLIP, FUSE ; F1601 FUSE, GLASS TUBE 3.15A/125V
CJ44 CJ45	1-216-295-91	CONDUCTOR, C	CHIP					CLIP, FUSE ; F1602
CJ46	1-216-295-91	CONDUCTOR, C	CHIP					40
CJ47 CJ48	1-216-295-91	CONDUCTOR, C	CHIP			TC1501	0 750 100 71	<ic></ic>
CJ49	1-216-295-91	CONDUCTOR, C	CHIP			IC1501 IC1601		IC STK392-010
CJ50 CJ51	1-216-295-91	CONDUCTOR, C	CHIP			IC1602 IC1701	8-752-861-57	IC STK392-010 IC CXP85112B-613S
CJ52		CONDUCTOR, C				IC1702		IC MN1382S
CJ53 CJ54	1-216-295-91	CONDUCTOR, C	CHIP			IC1801 IC1802	8-759-327-52 8-759-327-51	IC PA0053B
CJ56 CJ57	1-216-295-91 1-216-295-91	CONDUCTOR, C	CHIP CHIP			IC1803 IC1804	8-759-012-67 8-759-231-53	IC MC7905CT IC TA7805S
CJ58		CONDUCTOR, C				IC1805	8-759-327-52	
	//					I		

The componants identified by shading and mark  $\Delta$  are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque  $\Lambda$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



	specilieu.	***************************************	piece porte	air le numeio	specille.							
	REF. NO.	PART NO.	DESCRIPTION		R	EMARK	REF. NO.	PART NO.	DESCRIPTION		R	EMARK
	IC1806 IC1807 IC1808 IC1809 IC1931	8-759-279-76 8-759-327-52	IC LM7912CT IC MCT7812CT				R1613 R1615 R1616 R1618	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	4.7 4.7 4.7 4.7	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W
	IC1932	8-759-711-28	IC NJM2058D				R1619 R1620 R1621 R1622	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	4.7 4.7 4.7 4.7	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W
			<coil></coil>				R1623	1-214-729-00	METAL	1K	1%	1/4W
	L1501 L1502 L1503 L1515 L1516	1-412-533-21 1-412-524-11 1-410-470-11	INDUCTOR 47U INDUCTOR 47U INDUCTOR 8.2U INDUCTOR 10U INDUCTOR 100U	H IH H			R1624 R1625 R1626 R1627 R1628	1-214-729-00 1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	1K 4.7 4.7 4.7 4.7	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
	L1701 L1801 L1802	1-406-975-21	INDUCTOR 10UI COIL, CHOKE 47 COIL, CHOKE 47	7UH 7UH			R1629 R1630 R1631 R1632 R1633	1-214-673-00 1-214-673-00 1-214-729-00 1-214-673-00 1-214-673-00	METAL METAL METAL	4.7 4.7 1 <b>K</b> 4.7 4.7	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
			<transistor></transistor>				R1634	1-214-729-00	METAL	1K	1%	1/4W
	Q1501 Q1502 Q1551 Q1552 Q1701	8-729-422-27 8-729-216-22 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SD601A-Q SA1162-G SD601A-O		;	R1635 R1636 R1637 R1638	1-214-673-00 1-214-673-00 1-214-673-00 1-214-673-00	METAL METAL METAL	4.7 4.7 4.7 4.7	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W
	Q1801 Q1802 Q1803 Q1804 Q1805	8-729-216-22 8-729-029-86 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR D' TRANSISTOR 2S TRANSISTOR D'	SA1162-G TC124ESA SD601A-Q			R1639 R1640 R1641 R1642 R1717	1-214-673-00 1-214-673-00 1-214-673-00 1-214-033-00	METAL METAL	4.7 4.7 4.7 4.7 220	1% 1% 1% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/10W
	R1501		<resistor> METAL GLAZE</resistor>		5%	1/10W	R1721 R1737 R1740 R1748 R1749	1-216-033-00 1-216-025-91 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CONDUCTOR, C	220 100 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W
	R1502 R1504 R1505 R1506	1-208-814-11 1-216-081-00 1-216-085-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 33K	0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R1751 R1752 R1753 R1760	1-216-081-00 1-216-073-00 1-216-295-91	METAL GLAZE METAL GLAZE CONDUCTOR, C CONDUCTOR, C	22K 10K HIP	5% 5%	1/10W 1/10W
	R1507 R1508	1-208-814-11	METAL CHIP METAL GLAZE	22K	0.50% 5%	1/10W 1/10W	R1788		METAL CHIP	10 <b>K</b>	0.50%	1/10W
90000	R1509 A R1510	1-249-383-91 1-214-671-11	CARBON	1.5	5% 1%	1/4W F 1/4W	R1801 R1802		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
	R1511	1-214-671-11	METAL	3.9	1%	1/4W	R1803 R1804	1-216-073-00	METAL GLAZE METAL GLAZE	10K	5% 5%	1/10W 1/10W
	R1512 R1513 R1514	1-214-671-11 1-216-632-11	METAL CHIP	3.9 160	5% 1% 0.50%	3W F 1/4W 1/10W	R1805 R1806	1-216-081-00	METAL GLAZE	22K	5% 5%	1/10W 1/10W
	R1515 R1516	1-216-639-11 1-214-671-11	METAL CHIP METAL	330 3.9	0.50% 1%	1/10W 1/4W	R1807 R1808	1-216-049-91	METAL GLAZE	1 <b>K</b>	5% 5%	1/10W 1/10W
	R1517 R1518		METAL CHIP METAL CHIP	680 3.9K	0.50% 0.50%	1/10W 1/10W	R1809 R1810		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
90000000000	R1519 A	1-249-385-91 1-249-385-91	CARBON	2.2 2.2	5% 5% 5%	1/4W F 1/4W F 1/10W	R1811 R1812 R1813	1-216-097-91 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W
	R1522 R1523		METAL GLAZE		5%	1/10W	R1814 R1815		METAL CHIP METAL CHIP	100K 82K	0.50% 0.50%	1/10W 1/10W
	R1551 R1552	1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K	5% 5% 5%	1/10W 1/10W 1/10W	R1816 R1817		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
	R1553	1-216-077-00	METAL GLAZE	15 <b>K</b>	5%	1/10W	R1818 R1819	1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE	100 100	5% 5%	1/10W 1/10W
	R1554 R1559 R1562	1-216-073-00	METAL GLAZE	10 <b>K</b>	5% 5%	1/10W 1/10W 1/10W	R1820		METAL GLAZE		5%	1/10W
	R1603 R1604	1-216-663-11	METAL GLAZE METAL CHIP METAL CHIP	3.3K 3.3K	5% 0.50% 0.50%	1/10W 1/10W 1/10W	R1821 R1823 R1824 R1825	1-208-811-11 1-216-685-11	METAL GLAZE METAL CHIP METAL CHIP METAL CHIP	16K 27K 27K	5% 0.50% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W
	R1605 R1606		METAL CHIP METAL CHIP	3.3K 3.3K	0.50% 0.50%	1/10W 1/10W	R1826		METAL CHIP	27K	0.50%	1/10W 1/10W
	R1607 R1608 R1610	1-216-663-11	METAL CHIP METAL CHIP	3.3K	0.50% 0.50% 1%	1/10W 1/10W 1/4W	R1827 R1828 R1829	1-216-685-11	METAL CHIP METAL CHIP METAL CHIP	27K 27K 27K	0.50% 0.50% 0.50%	1/10W 1/10W 1/10W
	R1612	1-214-729-00		1 <b>K</b>	1%	1/4W	R1830 R1831	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W



Les composants identifies par une trame et une marque \( \triangle \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark extstyle

REF. NO.	PART NO.	DESCRIPTION		R	EMARK	REF. NO.	PART NO.	DESCRIPTION	'	R	EMARK
R1832 R1833		METAL CHIP METAL GLAZE	12K	0.50% 5%	1/10W 1/10W	R1903	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1834 R1835	1-216-049-91	METAL GLAZE METAL GLAZE	1K	5% 5%	1/10W 1/10W	R1904 R1905		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1836		METAL GLAZE		5%	1/10W	R1907	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1837		METAL CHIP	10 <b>K</b>	0.50%	1/10W	R1908 R1909		METAL CHIP METAL GLAZE	22K 100	0.50% 5%	1/10W 1/10W
R1838 R1839		METAL CHIP METAL GLAZE	4.7K 180	0.50% 5%	1/10W 1/10W	R1910	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R1840 R1841		METAL CHIP METAL CHIP	10 <b>K</b> 10 <b>K</b>	0.50% 0.50%	1/10W 1/10W	R1911 R1912	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0.50% 0.50%	1/10W 1/10W
R1842		METAL GLAZE		5%	1/10W	R1913 R1914	1-216-685-11	METAL CHIP METAL CHIP	27K 27K	0.50% 0.50%	1/10W 1/10W
R1843 R1844	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W						
R1845	1-216-077-00	METAL GLAZE	15K	5% 5%	1/10W 1/10W	R1915 R1916	1-216-025-91	METAL CHIP METAL GLAZE		0.50% 5%	1/10W 1/10W
R1846		METAL GLAZE		5%	1/10W	R1917 R1918	1-216-667-11	METAL CHIP METAL CHIP	10 <b>K</b> 4.7 <b>K</b>	0.50% 0.50%	1/10W 1/10W
R1847 R1848		METAL CHIP METAL GLAZE	10 <b>K</b> 15 <b>K</b>	0.50% 5%	1/10W 1/10W	R1919	1-208-822-11	METAL CHIP	47K	0.50%	1/10 <b>W</b>
R1849 R1850		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1920 R1923		METAL CHIP METAL CHIP	4.7K 12K	0.50% 0.50%	1/10W 1/10W
R1851		METAL GLAZE		5%	1/10W	R1925 R1926	1-216-031-00	METAL GLAZE METAL CHIP		5% 0.50%	1/10W 1/10W
R1852 R1853		METAL GLAZE		5%	1/10W	R1927		METAL GLAZE		5%	1/10W 1/10W
R1854	1-216-025-91	METAL GLAZE METAL GLAZE	100	5% 5%	1/10W 1/10W	R1928		METAL CHIP	10 <b>K</b>	0.50%	1/10W
R1855 R1856		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1931 R1935	1-218-766-11	METAL CHIP METAL CHIP	91 <b>K</b> 390 <b>K</b>	0.50% 0.50%	1/10W 1/10W
R1857	1-216-033-00	METAL GLAZE	220	5%	1/10W	R1937 R1938		METAL CHIP METAL CHIP	10K 15K	0.50% 0.50%	1/10W 1/10W
R1858 R1859		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1940	1-208-812-11	METAL CHIP	18 <b>K</b>	0.50%	1/10W
R1860 R1861		METAL GLAZE METAL OXIDE		5% 5%	1/10W 3W F	R1941 R1942	1-208-806-11	METAL CHIP METAL CHIP	10K 10K	0.50% 0.50%	1/10W 1/10W
R1862		METAL OXIDE		5%	3W F	R1943 R1944	1-216-699-11	METAL CHIP METAL CHIP	100K 10K	0.50% 0.50%	1/10W 1/10W
R1863 R1864	1-216-025-91	METAL GLAZE	100	5%	1/10W						
R1865	1-216-473-11	METAL GLAZE METAL OXIDE	56	5% 5%	1/10W 3W F	R1947 R1948	1-216-093-00	METAL GLAZE METAL GLAZE	68K	5% 5%	1/10W 1/10W
R1866		METAL OXIDE		5%	3W F	R1949 R1950	1-216-659-11	METAL CHIP METAL CHIP	2.2K 2.2K	0.50% 0.50%	1/10W 1/10W
R1868 R1869		METAL GLAZE METAL CHIP	100 27 <b>K</b>	5% 0.50%	1/10W 1/10W	R1951	1-208-806-11	METAL CHIP	10 <b>K</b>	0.50%	1/10W
R1870 R1871		METAL CHIP METAL CHIP	27K 27K	0.50% 0.50%	1/10W 1/10W	R1952 R1954		METAL CHIP METAL CHIP	10 <b>K</b> 10 <b>K</b>	0.50% 0.50%	1/10W 1/10W
R1872	1-216-685-11	METAL CHIP	27K	0.50%	1/10W	R1955 R1956		METAL CHIP METAL CHIP	10K 5.6K	0.50% 0.50%	1/10W 1/10W
R1873 R1874		METAL CHIP METAL CHIP	27K 27K	0.50% 0.50%	1/10W 1/10W	R1957		METAL CHIP	56K	0.50%	1/10W
R1875 R1876	1-208-824-11	METAL CHIP METAL GLAZE	56K	0.50% 5%	1/10W 1/10W	R1958 R1959		METAL CHIP METAL CHIP	5.6K 56K	0.50% 0.50%	1/10W 1/10W
R1877		METAL CHIP	15K	0.50%		R1960	1-208-806-11	METAL CHIP	10 <b>K</b>	0.50%	1/10W
R1878		METAL CHIP	10K		1/10W	R1961 R1962		METAL CHIP METAL GLAZE	10 <b>K</b> 15 <b>K</b>	0.50% 5%	1/10W 1/10W
R1879 R1880	1-218-768-11	METAL CHIP METAL CHIP	27K 470K	0.50% 0.50%	1/10W 1/10W	R1963		METAL GLAZE		5%	1/10W
R1881 R1883		CONDUCTOR, O METAL CHIP	THIP 12K	0.50%	1/10W	R1964 R1965		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1884	1-208-806-11	METAL CHIP	10 <b>K</b>	0.50%	1/10W	R1966 R1967		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R1885 R1886		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R1970	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R1887 R1888		METAL CHIP METAL CHIP	10 <b>K</b> 4.7 <b>K</b>	0.50% 0.50%	1/10W 1/10W	R1971 R1972		METAL CHIP METAL GLAZE	4.7K 390K	0.50% 5%	1/10W 1/10W
R1889	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	R1981 R1982	1-216-473-11	METAL OXIDE METAL OXIDE	56	5% 5%	3W F 3W F
R1890 R1891	1-216-125-00	METAL GLAZE METAL CHIP	1.5M	5% 0.50%	1/10W 1/10W						
R1892	1-216-061-00	METAL GLAZE		5%	1/10W	R1983 R1984	1-216-077-00	METAL GLAZE METAL GLAZE	15K	5% 5%	1/10W 1/10W
R1893		METAL GLAZE		5%	1/10W	R1985	1-210-025-91	METAL GLAZE	100	5%	1/10W
R1895		METAL GLAZE		5% 5%	1/4W F 1/10W			<thermistor< td=""><td>&gt;</td><td></td><td></td></thermistor<>	>		
R1897		METAL GLAZE		5% 5%	1/4W F 1/10W	TH1501		THERMISTOR			
R1898		METAL GLAZE		5%	1/10W	TH1801	1-808-269-11	THERMISTOR			
R1899 R1900	1-216-033-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W			<crystal></crystal>			
R1901 R1902		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	X1701	1-579-917-11	VIBRATOR, CR	YSTAL		
					;			•			







						<u></u>			
REF. NO. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
*******	********	*****	*****	R1312	1-247-804-11		75	5%	1/4W
* A-1372-111-	A HB BOARD, COMPLET:		5V35/53V35)	R1314	1-247-807-31	CARBON	100	5%	1/4W (KP-61V35)
		•				ewitch.			
	<capacitor></capacitor>			51201	1 571 721 11	<switch></switch>			
C1351 1-124-261-00		20%	50V	S1301 S1302	1-571-731-11	SWITCH, TACTI	TL.		
C1331 1-124-201-00	LEECT TOWIF	20%	30 <b>v</b>	S1303 S1304 S1305	1-571-731-11	SWITCH, TACTI	TL .		
	<connector></connector>			S1305		SWITCH, TACT			
CN1389 *1-564-518-11	PLUG, CONNECTOR 3P			S1307		SWITCH, TACTI			
	<ic></ic>								
IC1351 8-747-905-11	RAY CATCHER ELEMEN	IT SBX1	790-51	******	******	******	*****	*****	*****
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		* A-1373-559-A	U BOARD, CO			
	<resistor></resistor>								
R1352 1-247-807-31	CARBON 100	5%	1/4W			<capacitor></capacitor>			
				C1101	1-126-965-11		22MF	20%	50V
	*********			C1102 C1103	1-124-903-11 1-124-903-11		1MF 1MF	20% 20%	50V 50V
* A-1372-099-	4 HA BOARD, COMPLET		(V35)	C1104 C1105	1-163-031-11 1-126-965-11	CERAMIC CHIP ELECT	0.01MF 22MF	20%	50V 50V
* A-1372-112-	A HA BOARD, COMPLET		5V35/53V35)		1-126-965-11		22MF	20%	50V
	*******	*		C1107 C1108	1-124-903-11 1-124-903-11	ELECT	1MF 1MF	20% 20%	50V 50V
	GADA GIMOD			C1109 C1110	1-126-965-11 1-124-903-11		22MF 1MF	20% 20%	50V 50V
C1301 1-126-964-11	<capacitor></capacitor>	200	5057	C1111	1-124-903-11		1MF	20%	50V
C1301 1-126-964-11 C1304 1-126-964-11		20% 20%	50V 50V	C1121 C1122		CERAMIC CHIP		20% 5%	16V 50V
			(KP-61V35)	C1123 C1124	1-124-903-11 1-126-965-11		1MF 22MF	20% 20%	50V 50V
	<connector></connector>			C1125	1-124-903-11 1-104-665-11		1MF	20%	50V
CN1346 1-564-524-11	PLUG, CONNECTOR 9P PLUG, CONNECTOR 6P			C1126 C1127	1-104-663-11	ELECT	100MF 33MF	20% 20%	25V 25V
	PLUG, CONNECTOR 3P (	KP-46V3	35/53V35)	C1128 C1129	1-103-231-11	CERAMIC CHIP ELECT	22MF	5% 20%	50V 50V
	<diode></diode>			C1130 C1131	1-109-889-11 1-109-889-11		1MF 1MF	20% 20%	50V 50V
D1304 8-719-053-43	DIODE SLR-325VCT31			C1132 C1136	1-124-902-00 1-126-965-11	ELECT	0.47MF 22MF	20% 20% 20%	50V 50V
	DIODE SLR-325VCT31			C1137		CERAMIC CHIP		10%	50V
	<ic></ic>			C1138 C1139	1-124-902-00 1-126-964-11		0.47MF 10MF	20% 20%	50V 50V
IC1301 8-741-780-51	IC SBX1780-51 (KP-61V3	5)		C1145 C1146	1-128-499-11 1-124-902-00	ELECT	220MF 0.47MF	20% 20%	16V 50V
	·	,		C1147	1-124-902-00		0.47MF	20%	50V
	<jack></jack>			C1148 C1149	1-124-902-00 1-124-902-00		0.47MF 0.47MF	20% 20%	50V 50V
J1301 1-750-517-11	JACK BLOCK, PIN 3P			C1150 C1151	1-128-499-11 1-128-499-11		220MF 220MF	20% 20%	16V 16V
	<resistor></resistor>			C1152	1-128-499-11	ELECT	220MF	20%	16V
R1302 1-249-416-11		5%	1/4W	C1153	1-104-665-11	ELECT	100MF	20%	25V
R1303 1-249-417-11 R1304 1-249-425-11	CARBON 4.7K	5% 5%	1/4W 1/4W			<chip conduc<="" td=""><td>TOR&gt;</td><td></td><td></td></chip>	TOR>		
R1305 1-249-411-11 R1306 1-249-411-11		5% 5%	1/4W 1/4W	CJ1102	1-216-295-91	CONDUCTOR, C	CHIP		
R1307 1-249-420-11		5%	1/4W						
R1308 1-247-895-91 R1309 1-247-895-91	CARBON 470K	5% 5%	1/4W 1/4W	<b>5</b> ,		<connector></connector>			
R1310 1-249-429-11 R1311 1-247-815-91		5% 5%	1/4W 1/4W	CN1150	1-573-300-21	PLUG, CONNEC CONNECTOR, B	OARD TO	BOAR	D 18P
				CN1155	↑1-565 <b>-</b> 928-11	CONNECTOR (T	UB) 30P		



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
CN1156 CN1157	* 1-566-641-11 * 1-564-515-11	CONNECTOR, HINGE (TAB) 18P PLUG, CONNECTOR 12P		Q1107 Q1108 Q1109	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G		
CN1194	1-573-299-21	CONNECTOR, BOARD TO BOAR	D 10P	Q1110 Q1111 Q1111	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		
		<diode></diode>		Q1112 Q1113	8-729-422-27 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		
D1101 D1102 D1103	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		Q1114 Q1115	8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q		
D1104 D1105	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2				<resistor></resistor>		
D1106 D1107 D1108	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2		R1101 R1102	1-216-065-00	METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
D1109 D1111	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1103 R1104 R1105	1-247-804-11 1-216-065-00 1-247-804-11	METAL GLAZE 4.7K	5% 5% 5%	1/4W 1/10W 1/4W
D1112 D1113	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2		R1106 R1107	1-247-804-11 1-216-113-00	CARBON 75 METAL GLAZE 470K	5% 5%	1/4W 1/10W
D1114 D1115 D1116	8-719-110-17	DIODE RD10ESB2 DIODE RD10ESB2 DIODE RD10ESB2		R1108 R1109 R1110	1-216-113-00	METAL GLAZE 4.7K METAL GLAZE 470K METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
D1117 D1118		DIODE RD10ESB2 DIODE RD10ESB2		R1111 R1112		METAL GLAZE 4.7K METAL GLAZE 4.7K	5% 5%	1/10W 1/10W
D1120 D1121 D1122	8-719-110-17 8-719-921-86	DIODE RD10ESB2 DIODE MTZJ-13 DIODE MTZJ-13		R1113 R1114 R1115	1-247-804-11 1-216-113-00		5% 5% 5%	1/4W 1/10W 1/10W
D1123 D1124	8-719-921-86	DIODE MTZJ-13 DIODE MTZJ-13		R1116 R1117	1-216-095-00	METAL GLAZE 82K METAL GLAZE 82K	5% 5%	1/10W 1/10W
D1125 D1128 D1129	8-719-981-99 8-719-924-11	DIODE MTZJ-T-77-3.3 DIODE MTZJ-T-77-22 DIODE MTZJ-T-77-22		R1118 R1119	1-216-095-00 1-216-025-91	METAL GLAZE 82K METAL GLAZE 100	5% 5%	1/10W 1/10W
D1130 D1131	8-719-924-11	DIODE MTZJ-T-77-22		R1120 R1127	1-216-041-00	METAL GLAZE 100 METAL GLAZE 470	5% 5%	1/10W
D1132 D1133	8-719-110-17 8-719-110-17	DIODE MTZJ-T-77-22 DIODE RD10ESB2 DIODE RD10ESB2		R1129 R1130 R1132	1-216-067-00 1-216-025-91	METAL GLAZE 470 METAL GLAZE 5.6K METAL GLAZE 100	5% 5% 5%	1/10W 1/10W 1/10W
D1134 D1135		DIODE RD10ESB2 DIODE 1SS133T-77		R1133 R1134		METAL GLAZE 5.6K METAL GLAZE 4.7K	5% 5%	1/10 <b>W</b> 1/10 <b>W</b>
		<ic></ic>		R1135 R1137 R1138	1-216-025-91	METAL GLAZE 4.7K METAL GLAZE 100 METAL GLAZE 4.7K	5% 5% 5%	1/10W 1/10W 1/10W
IC1101 IC1102		IC CXA1855S IC NJM78M09FA		R1140	1-216-025-91	METAL GLAZE 100	5%	1/10 <b>W</b>
IC1102		IC NJM78M09FA			1-216-025-91 1-216-051-00	METAL GLAZE 470 METAL GLAZE 100 METAL GLAZE 1.2K	5% 5% 5%	1/10W 1/10W 1/10W
		<jack></jack>		R1146 R1149		METAL GLAZE 1,2K METAL GLAZE 470	5% 5%	1/10 <b>W</b> 1/10 <b>W</b>
J1101 J1102 J1103	1-750-517-11	TERMINAL BLOCK, S 3P JACK BLOCK, PIN 3P JACK BLOCK, PIN 3P		R1150 R1151 R1152	1-216-025-91	METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 560	5% 5% 5%	1/10W 1/10W 1/10W
J1104 J1105	1-750-517-11	JACK BLOCK, PIN 3P JACK BLOCK, PIN 2P		R1153 R1154	1-216-049-91	METAL GLAZE 1K METAL GLAZE 470	5% 5%	1/10W 1/10W
J1108 J1109 J1110	1-563-760-11	JACK, MINIATUER (DIA. 3.5) JACK, MINIATUER (DIA. 3.5) JACK, MINIATUER (DIA. 3.5)		R1155 R1156 R1157	1-216-043-91	METAL GLAZE 1K METAL GLAZE 560 METAL GLAZE 680	5% 5% 5%	1/10W 1/10W 1/10W
<b>71110</b>	1-303-700-11	, ,		R1158 R1159	1-216-043-91	METAL GLAZE 560 METAL GLAZE 680	5% 5%	1/10W 1/10W 1/10W
L1101	1-410-476-11	<coil> INDUCTOR 33UH</coil>		R1160 R1161		METAL GLAZE 1K METAL GLAZE 470	5% 5%	1/10W 1/10W
L1104 L1105		INDUCTOR 18UH INDUCTOR 1mH		R1162 R1165 R1166	1-216-041-00 1-249-403-11	METAL GLAZE 470	5% 5% 5%	1/10W 1/4W 1/10W
		<transistor></transistor>		R1167 R1168	1-216-113-00	METAL GLAZE 470K METAL GLAZE 470K	5% 5%	1/10W 1/10W
Q1102 Q1103 Q1104	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-O	!	R1169 R1170	1-216-025-91 1-216-041-00	METAL GLAZE 100 METAL GLAZE 470	5% 5%	1/10W 1/10W
Q1105 Q1106	8-729-216-22	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R1171 R1172	1-216-025-91	METAL GLAZE 100	5% 5%	1/10W 1/10W
				R1173	1-216-025-91	METAL GLAZE 100	5%	1/10 <b>W</b>





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1174 R1175 R1176	1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE	100	5% 5% 5%	1/10W 1/10W 1/10W	C1271 C1272 C1273	1-126-964-11 1-126-964-11 1-126-933-11	ELECT	10MF 10MF 100MF	20% 20% 20%	50V 50V 16V
R1178 R1179 R1180 R1181 R1182	1-216-025-91 1-216-025-91 1-216-097-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100 <b>K</b>	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1274 C1275 C1276 C1278 C1279	1-102-121-00 1-126-967-11 1-126-967-11 1-102-121-00 1-136-502-11	ELECT ELECT CERAMIC	0.0022MF 47MF 47MF 0.0022MF 0.33MF	20% 20%	50V 16V 16V 50V 50V
R1183 R1184 R1185 R1186 R1187	1-216-113-00 1-216-049-91 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 1K 3.3K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1280 C1281 C1282 C1283 C1284	1-126-967-11 1-124-903-11 1-130-499-00 1-136-502-11 1-126-964-11	ELECT MYLAR MYLAR	47MF 1MF 0.22MF 0.33MF 10MF	20% 20% 5% 5% 20%	16V 50V 50V 50V 50V
R1188 R1193 R1194 R1195 R1196	1-216-025-91 1-216-025-91 1-216-025-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C1285 C1286 C1287 C1289 C1290	1-130-493-00 1-136-165-00 1-126-963-11 1-126-967-11 1-128-550-11	FILM ELECT ELECT	0.068MF 0.1MF 4.7MF 47MF 2200MF	5% 5% 20% 20% 20%	50V 50V 50V 50V 50V
R1197 R1238 R1239 R1240	1-216-049-91 1-216-049-91	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 <b>K</b> 1 <b>K</b>	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	C1291 C1292 C1293 C1294 C1295	1-128-550-11 1-126-964-11 1-104-665-11 1-126-965-11 1-124-925-11	ELECT ELECT ELECT	2200MF 10MF 100MF 22MF 2.2MF	20% 20% 20% 20% 20%	50V 50V 25V 50V 50V
<b>TB</b> 1101	1 507 710 11	<terminal bo<="" td=""><td></td><td></td><td></td><td>C1296 C1297</td><td>1-126-964-11 1-126-964-11</td><td></td><td>10MF 10MF</td><td>20% 20%</td><td>50V 50V</td></terminal>				C1296 C1297	1-126-964-11 1-126-964-11		10MF 10MF	20% 20%	50V 50V
181101	1-55/-/12-11	TERMINAL, PU	SH					<connector></connector>			
**************************************						CN1209 *1-564-507-11 PLUG, CONNECTOR 4P CN1210 *1-573-963-11 PIN, CONNECTOR (PC BOARD) 3P CN1230 1-695-915-11 TAB (CONTACT) CN1270 *1-564-512-11 PLUG, CONNECTOR 9P CN1271 *1-691-134-11 PIN, CONNECTOR (PC BOARD) 2P					
<capacitor></capacitor>								<diode></diode>			
C1204 C1205 C1208 C1209 C1210	1-104-759-11 1-104-759-11 1-164-625-11 1-164-625-11 1-136-173-00	ELECT ELECT CERAMIC CERAMIC	470MF 470MF 680PF 680PF 0.47MF	20% 20% 10% 10% 5%	200V 200V 500V 500V 500V	D1201 D1205 D1207 D1209 D1211	8-719-991-33 8-719-991-33 8-719-991-33	DIODE LN4SB60 DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77 -77		
C1211 C1212 C1213 C1214 C1215	1-136-169-00 1-136-173-00 1-136-169-00 1-164-625-11 1-129-719-00	FILM FILM CERAMIC	0.22MF 0.47MF 0.22MF 680PF 0.027MF	5% 5% 5% 10% 5%	50V 50V 50V 500V 630V	D1214 D1215 D1230 D1231 D1232	8-719-160-81 8-719-988-31 8-719-510-09	DIODE RD27FB2 DIODE RD27FB2 DIODE D10SC6N DIODE D10SC6N DIODE 1SS133T	2 MR M		
C1230 C1231 C1232 C1233 C1234	1-136-153-00 1-128-548-11 1-128-548-11 1-136-153-00 1-126-965-11	ELECT ELECT FILM	0.01MF 4700MF 4700MF 0.01MF 22MF	5% 20% 20% 5% 20%	50V 25V 25V 50V 50V	D1233 D1234 D1235 D1251 D1252	8-719-110-60 8-719-921-80 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE RD24ESI DIODE MTZJ-11 DIODE 1SS133T DIODE 1SS133T	3 B -77 -77		
C1251 C1252 C1253 C1254 C1255	1-101-888-00 1-102-971-00 1-101-006-00 1-102-127-00 1-102-978-00	CERAMIC CERAMIC CERAMIC	68PF 82PF 0.047MF 0.0068MF 220PF	5% 5% 10% 5%	50V 50V 50V 50V 50V	D1253 D1260 D1261 D1270 D1271	8-719-991-33 8-719-991-33 8-719-991-33	DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T DIODE 1SS133T	-77 -77 -77		
C1256 C1257 C1258 C1259 C1260	1-102-978-00 1-104-665-11 1-126-964-11 1-124-903-11 1-104-665-11	ELECT ELECT ELECT	220PF 100MF 10MF 1MF 100MF	5% 20% 20% 20% 20%	50V 25V 50V 50V 25V	D1272 D1273 D1274 D1275 D1276	8-719-924-11 8-719-924-11 8-719-991-33	DIODE 1SS133T DIODE MTZJ-T- DIODE MTZJ-T- DIODE 1SS133T DIODE 1SS133T	77-22 77-22 -77		
C1261 C1262 C1263 C1266 C1267	1-104-665-11 1-137-399-11 1-102-978-00 1-101-002-00 1-126-967-11	ELECT FILM CERAMIC CERAMIC	100MF 0.1MF 220PF 0.0022MF 47MF	20% 5% 5% 20%	25V 50V 50V 50V 16V	D1277 D1278		DIODE 1SS133T DIODE 1SS133T <ic></ic>			
C1268 C1270	1-126-964-11 1-126-964-11	ELECT	10MF 10MF	20% 20%	50V 50V	IC1230 IC1270 IC1271	8-759-420-19 8-759-135-80 8-759-135-80	IC uPC358C			



Les composants identifies par une trame et une marque \(\Lambda\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark  $\triangle$  are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		R	EMARK	REF. NO.	PART NO.	DESCRIPTION		]	REMARK
IC1272 IC1273	8-759-398-49 8-759-135-80	IC MM1124AD IC uPC358C				R1259	1-247-863-91	CARBON	22K	5%	1/4W
IC1274 IC1275		IC TDA2052				R1260 R1261 R1262	1-249-430-11 1-247-807-31 1-249-417-11	CARBON	12 <b>K</b> 100 1 <b>K</b>	5% 5% 5%	1/4W 1/4W 1/4W
		<coil></coil>				R1263 R1264	1-249-429-11 1-249-417-11	CARBON	10K 1K	5% 5%	1/4W 1/4W
L1251		INDUCTOR 2.2U				R1265 R1266	1-249-429-11 1-249-429-11		10 <b>K</b> 10 <b>K</b>	5% 5%	1/4W 1/4W
L1252	1-414-158-11	INDUCTOR 2.2U	JH			R1267 R1268 R1269	1-249-429-11 1-247-863-91 1-249-417-11	CARBON	10K 22K 1K	5% 5% 5%	1/4W 1/4W 1/4W
		<transistor></transistor>	•			R1270	1-249-425-11		4.7K	5%	1/4W
Q1201 Q1202 Q1230 Q1231 Q1232	8-729-019-49 8-729-119-76 8-729-230-45	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC4834M SA1175-HF SC2458-YC	R		R1271 R1272 R1273 R1275	1-249-425-11 1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	4.7K 10K 10K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
Q1233	8-729-119-78	TRANSISTOR 2	SC2785-HF	E		R1276 R1277	1-249-429-11 1-249-429-11		10 <b>K</b> 10 <b>K</b>	5% 5%	1/4W 1/4W
Q1260 Q1261 Q1262	8-729-119-78	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2785-HF	Έ		R1279 R1280 R1281	1-249-437-11 1-249-416-11 1-249-437-11	CARBON	47K 820 47K	5% 5% 5%	1/4W 1/4W 1/4W
Q1263		TRANSISTOR 2				R1282	1-249-417-11		1K	5%	1/4W
Q1270 Q1271		TRANSISTOR 25 TRANSISTOR D		E		R1283 R1284	1-247-863-91 1-249-415-11	CARBON	22K 680	5% 5%	1/4W 1/4W
Q1272 Q1273	8-729-119-76 8-729-119-78	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SA1175-HF SC2785-HF	Έ		R1285 R1286	1-249-431-11 1-249-421-11	CARBON	15K 2.2K	5% 5%	1/4W 1/4W
Q1274 Q1275		TRANSISTOR 2				R1287 R1288	1-249-431-11 1-249-431-11		15K 15K	5% 5%	1/4W 1/4W
Q1277 Q1277 Q1278	8-729-119-78	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2785-HF	Έ		R1289 R1290	1-249-429-11	CARBON	10K 4.7	5% 5% 5%	1/4W 1/4W 1W F
Q1279 Q1280	8-729-119-76	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SA1175-HF	Œ		R1290	1-247-863-91		22K	5%	1/4W
Q1260	0-729-119-70	TRANSISTOR 2	3A1173-III	L		R1292 R1293	1-249-429-11 1-247-863-91		10K 22K	5% 5%	1/4W 1/4W
		<resistor></resistor>				R1294 R1295	1-249-441-11 1-247-863-91	CARBON	100K 22K	5% 5%	1/4W 1/4W
R1204 R1205	1-247-891-00 1-247-891-00		330K 330K	5% 5%	1/4W 1/4W	R1296	1-249-415-11		680	5%	1/4W
	1-202-933-61 1-247-891-00	FUSIBLE	0.1 330K	10% 5%	1/2W F 1/4W	R1297 R1298	1-249-425-11 1-249-411-11		4.7K 330	5% 5%	1/4W 1/4W
R1208	1-247-891-00	CARBON	330K	5%	1/4W	R1299 R1358	1-249-429-11 1-249-429-11	CARBON	10K 10K	5% 5%	1/4W 1/4W
R1209 R1210	1-216-375-00 1-247-891-00	METAL OXIDE CARBON	3.3 330K	5% 5%	2W F 1/4W	R1360	1-249-441-11		100K	5%	1/4W
R1211 R1212	1-247-891-00 1-216-375-00	CARBON METAL OXIDE	330K 3.3	5% 5%	1/4W 2W F	R1361 R1362	1-247-887-00 1-249-437-11		220K 47K	5% 5%	1/4W 1/4W
R1213	1-249-393-11		10	5%	1/4W	R1363 R1364	1-249-429-11 1-259-880-11	CARBON	10K 2.2M	5% 5%	1/4W 1/4W
R1215 R1230	1-249-393-11 1-249-393-11		10 10	5% 5%	1/4W 1/4W F	R1365	1-249-441-11		100K	5%	1/4W
R1231	1-247-807-31	CARBON	100	5%	1/4W	R1366	1-249-432-11		18K	5%	1/4W
R1232 R1233	1-247-883-00 1-215-448-00		150K 13K	5% 1%	1/4W 1/4W	R1367 R1368	1-249-425-11 1-249-410-11	CARBON	4.7 <b>K</b> 270	5% 5%	1/4W 1/4W
R1234	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W	R1369 R1370	1-249-441-11 1-249-429-11		100K 10K	5% 5%	1/4W 1/4W
R1235 R1236	1-215-428-00 1-249-429-11		2K 10K	1% 5%	1/4W 1/4W	R1371	1-249-429-11	CARRON	10 <b>K</b>	5%	1/4W
R1237 R1238	1-247-807-31	CARBON	100	5%	1/4W	R1372	1-247-807-31	CARBON	100	5%	1/4W
	1-249-429-11		10 <b>K</b>	5%	1/4W	R1373 R1374	1-249-413-11 1-249-417-11	CARBON	470 1 <b>K</b>	5% 5%	1/4W 1/4W
R1239 R1240	1-249-421-11 1-215-888-00	CARBON METAL OXIDE	2.2 <b>K</b> 220	5% 5%	1/4W 2W F	R1375	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W
R1241 R1242	1-249-429-11 1-249-425-11		10K 4.7K	5% 5%	1/4W 1/4W	R1376 R1377	1-247-807-31 1-249-417-11		100 1 <b>K</b>	5% 5%	1/4W 1/4W
R1243	1-249-429-11		10K	5%	1/4W	R1378	1-249-417-11	CARBON	1 <b>K</b>	5%	1/4W
R1244	1-249-425-11		4.7K	5%	1/4W	R1379 R1380	1-249-427-11 1-249-427-11		6.8K 6.8K	5% 5%	1/4W 1/4W
R1245 R1248	1-211-761-11 1-211-761-11		0.1 0.1	10% 10%	1/2W 1/2W	R1381	1-249-429-11	CARBON	10 <b>K</b>	5%	1/4W
R1250 R1252	1-249-437-11 1-249-429-11	CARBON	47K 10K	5% 5%	1/4W 1/4W	R1382 R1383	1-249-429-11 1-249-429-11	CARBON	10K 10K	5% 5%	1/4W 1/4W
R1254	1-249-437-11		47K	5%	1/4W	1.505	1 277-727-11	U, III DOI1	1011	570	A1-7 44
R1255	1-249-437-11	CARBON	47K	5%	1/4W			<transforme< td=""><td>ER&gt;</td><td></td><td></td></transforme<>	ER>		
R1256 R1257	1-249-437-11 1-247-887-00		47K 220K	5% 5%	1/4W 1/4W	T1202	д 1-429-289-11	TRANSFORME	R, CONVE	RTER (P	IT)
						i					•

The componants identified by shading and mark \Lambda are critical for safety. Replace only with part number

specified.

Les composants identifies par une trame et une marque 🛦 sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION		R 	EMARK	<u>.</u>	REF. NO.	PART NO.	DESCRIPTION			REMARI	<u> </u>
T1204	± 1-427-864-12	TRANSFORMER	R, CONVER	TER (PF	IT)		******	*****	******	******	*****	******	**
*****	*****	******	*****	*****	*****	**		* A-1390-489- <i>A</i>	ZG BOARD, C	OMPLETE			
	* A-1390-487-A	ZR BOARD, CO	OMPLETE						<capacitor></capacitor>				
	4-382-854-11	SCREW (M3X10	), P, SW (+	)			C1433	1-102-973-00	CERAMIC	100PF	5%	50V	
<capacitor></capacitor>									<connector:< td=""><td>&gt;</td><td></td><td></td><td></td></connector:<>	>			
C1403 C1404 C1405 C1406 C1407	1-102-978-00 1-107-638-11 1-104-665-11 1-107-370-11 1-104-665-11	ELECT ELECT FILM	220PF 33MF 100MF 0.1MF 100MF	5% 20% 20% 10% 20%	50V 160V 25V 200V 25V		CN1442 CN1443	* 1-564-507-11 * 1-564-506-11	PIN, CONNECT PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	CTOR 4P CTOR 3P	ARD) 4	JP	
C1408 C1409	1-107-362-11 1-107-667-11		0.0047MF 2.2MF	10% 20%	200V 160V				<resistor></resistor>				
C1410 C1411 C1412	1-107-362-11 1-137-364-11 1-137-364-11	FILM FILM	0.0047MF 0.001MF 0.001MF		200V 50V 50V		R1431 R1432 R1435 R1436		CARBON METAL OXIDE		5% 5% 5%	1/4W 1/4W 3W	F
C1413 C1414 C1415 C1416	1-161-830-00 1-104-661-91 1-102-947-00 1-102-973-00	ELECT CERAMIC	0.0047MF 330MF 10PF 100PF	20% 0.5PF 5%	500V 16V 50V		R1437		METAL OXIDE CARBON	120 1 <b>K</b>	5% 5%	3W 1/4W	F
C1410	1-102-973-00	CERAMIC	100FF	3%	50V		******	*****	******	******	*****	******	**
		<connector></connector>	•					* A-1390-491-A	ZB BOARD, C				
CN1412 CN1413 CN1414	* 1-564-507-11 * 1-564-506-11 * 1-564-509-11	PIN, CONNECTO PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	CTOR 4P CTOR 3P CTOR 6P	ARD) 4P					<connector:< td=""><td></td><td></td><td></td><td></td></connector:<>				
CN1416	1-695-915-11	TAB (CONTACT	r)				CN1472	* 1-564-507-11	PIN, CONNECT PLUG, CONNEC PLUG, CONNEC	CTOR 4P	ARD) 4	IP.	
		<diode></diode>							<resistor></resistor>				
D1401 D1402		DIODE MTZJ-13 DIODE MTZJ-13					R1461 R1462	1-249-414-11 1-249-414-11	CARBON CARBON	560 560	5% 5%	1/4W 1/4W	-
		<transistor:< td=""><td>&gt;</td><td></td><td></td><td></td><td>R1465 R1466</td><td></td><td>METAL OXIDE METAL OXIDE</td><td></td><td>5% 5%</td><td>3W 3W</td><td>F F</td></transistor:<>	>				R1465 R1466		METAL OXIDE METAL OXIDE		5% 5%	3W 3W	F F
Q1401 Q1402 Q1403	8-729-017-05	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1837				******	*****	******	******	*****	*****	**
		-DEGLETOD.							MISCELLANEO				
R1401 R1402 R1405 R1406		CARBON CARBON METAL OXIDE		5% 5% 5%	1/4W 1/4W 1/4W 3W	F		1-417-178-11 1-452-790-11 1-452-790-21		TENNA (A	.S-2)	JE)	
R1407 R1408 R1409 R1410 R1411 R1412	1-249-400-11 1-249-384-11 1-249-384-11 1-247-734-11 1-249-417-11 1-249-414-11	CARBON CARBON CARBON CARBON	1.8 1.8 39 1K 560	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/2W 1/4W 1/4W	F F F F	•	1-505-378-11 1-556-945-21 * 1-557-056-41		M) (KV-46) (WITH NO	ISE FIL	,	<b>5V</b> )
R1413 R1414 R1415 R1416 R1417	1-249-432-11 1-249-432-11 1-249-414-11 1-216-451-11	CARBON CARBON	18K 18K 560 120	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 2W 3W	F F F	1	± 8-451-463-11 ± 8-451-463-21 ± 8-598-955-10	LEAD ASSY, H DEPLECTION Y DEFLECTION Y BLOCK ASSY, PICTURE TUBE	V YOKE Y829 YOKE Y829 HIGH-VOL	PA2N() PA2N2 TAGE	R),(O)	3
R1418 R1419 R1420 R1421	1-249-377-11 1-247-815-91 1-216-475-11 1-249-417-11	CARBON METAL OXIDE	0.47 220 120 1K	5% 5% 5% 5%	1/4W 1/4W 3W 1/4W	F F	1	± 8-736-076-25 ± 8-736-077-15	PICTURE TUBE PICTURE TUBE PICTURE TUBE PICTURE TUBE	07MAC3() 07MAC2()	B) (KP-53 R)(KP- R)	V35/61V	

\*4-047-774-01 PLATE, TOP (KP-53V35)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	8-741-797-01	FILTER, DIGITAL COM SBX	1797-01		* 4-048-087-01	CUSHION (UPPER) (ASSY)	(KP-53V35)
		•		1	* 4-048-088-01	CUSHION (LOWER) (ASSÝ	(KP-53V35)
					4-048-634-01		
******	******	*******	*****		4-048-790-01	GLASS (53), DOOR (KP-46)	V35/53V35)
		ES AND PACKING MATERIAI				GLASS (61), DOOR (KP-61)	
	******	*******	***	i		BOARD, BOTTOM (KP-53V	735)
						TRAY (KP-53V35)	
		BAG, POLYETHYLENE				INDIVIDUAL CARTON (KI	?-53V35)
		MANUAL, INSTRUCTION			* 4-049-193-01	BAG, POLYETHYLENE	
	4-036-901-01	MANUAL, INSTRUCTION (C	anadian model)		* 4 040 274 01	SHEET, PROTECTION (KP-	463125)
		BOARD, TOP (KP-46V35)				CUSHION (FRONT) (ASSY	
	74-037-074-01	BOARD, TOF (RF-40V33)		İ	* 4-049-306-01	BLOCK, FOAM (KP-61V35)	) (KI-33 ¥ 33)
	4-038-384-01	CATCHER, MAGNET				CUSHION (UPPER) (ASSY)	
	4-038-385-01					BAG, PROTECTION (KP-6)	
		CUSHION, GLASS			1019 352 01	Dile, i Rol Zellon (IZ 6)	. , , , ,
		<b>BAG, PROTECTION (KP-46V</b>	(35/53V35)	•	7-682-576-04	SCREW +B 5X12	
		SHEET, PROTECTION (KP-5		•	7-684-025-04	N 5, TYPE 2	
		,	·		7-685-661-79	SCREW +BVTP 4X12 TYPE	E2 IT-3
	* 4-047-553-01	INDIVIDUAL CARTON (KP-	61V35)	]		DOOR ASSY, RACK (KP-61	
		TRAY (KP-61V35)		1	X-4033-667-1	DOOR (L) ASSY, RACK (K	P-46V35/53V35)
		PLATE, TOP (KP-61V35)					
		BOARD, BOTTOM (KP-61V3		1	X-4033-668-1	DOOR (R) ASSY, RACK (K	P-46V35/53V35)
	* 4-047-557-01	CUSHION (UPPER) (ASSY) (	KP-61V35)	İ			
		CUSHION (LOWER) (ASSY)				REMOTE COMMANDER	
		CUSHION (LEFT UPPER) (KI		1		*******	
		CUSHION (RIGHT UPPER) (I					
		CUSHION (LEFT LOWER) (K				REMOTE COMMANDER (I	
	* 4-047-562-01	CUSHION (RIGHT LOWER)	(KP-61V35)		4-978-977-01	POCKET, COVER (FOR RM	1-Y137)
	* 4-047-603-01	CUSHION (UPPER) (ASSY) (	KP-46V35)				
		CUSHION (LOWER) (ASSÝ)	(KP-46V35)				
		TRAY (KP-46V35)	•	•			
		BOARD, BOTTOM (KP-46V3		1			
	* 4-047-608-01	INDIVIDUAL CARTON (KP-	46V35)				